abcam

Product datasheet

Anti-STING antibody [EPR25090-107] ab288157

リコンビナント RabMAb

2 References 画像数 16

製品の概要

製品名	Anti-STING antibody [EPR25090-107]
製品の詳細	Rabbit monoclonal [EPR25090-107] to STING
由来種	Rabbit
アプリケーション	**適用あり:** Flow Cyt (Intra), ICC/IF, IHC-P, IHC-Fr, WB, IP
種交差性	**交差種:** Mouse, Rat
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: C2C12, RAW264.7, J774A.1, and A20 whole cell lysates; Mouse spleen tissue lysate; Rat spleen tissue lysate. IHC-P: Mouse spleen, liver and breast cancer tissues; Rat spleen and liver tissues. IHC-Fr: Mouse spleen tissue; Rat spleen tissue. ICC/IF: J774A.1 and RAW 264.7 cells. Flow cyt: RAW 264.7 and J774A.1 cells. IP: RAW264.7 whole cell lysate.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR25090-107

アイソタイプ IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab288157の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/500.
ICC/IF		1/50.
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr		1/500.
WB		1/1000. Detects a band of approximately 33, 35 kDa (predicted molecular weight: 42 kDa).
IP		1/30.

ターゲット情報

機能 Facilitator of innate immune signaling that promotes the production of type I interferon (IFN-alpha and IFN-beta). Innate immune response is triggered in response to non-CpG double-stranded DNA from viruses and bacteria delivered to the cytoplasm. Able to activate both NF-kappa-B and IRF3 transcription pathways to induce expression of type I interferon and exert a potent anti-viral state following expression. May be involved in translocon function, the translocon possibly being able to influence the induction of type I interferons. May be involved in transduction of apoptotic signals via its association with the major histocompatibility complex class II (MHC-II). Mediates death signaling via activation of the extracellular signal-regulated kinase (ERK) pathway.

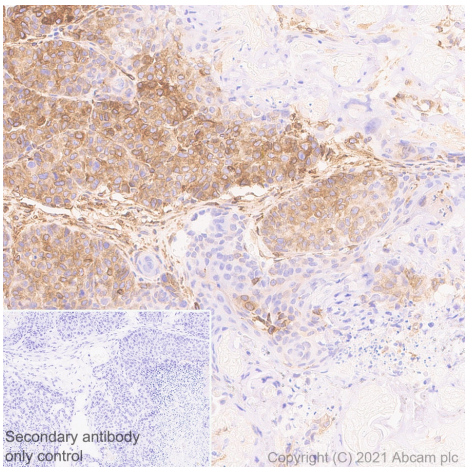
組織特異性 Ubiquitously expressed.

配列類似性 Belongs to the TMEM173 family.

翻訳後修飾 Phosphorylated on tyrosine residues upon MHC-II aggregation (By similarity). Phosphorylated on Ser-358 by TBK1, leading to activation and production of IFN-beta.
Ubiquitinated. 'Lys-63'-linked ubiquitination mediated by TRIM56 at Lys-150 promotes homodimerization and recruitment of the antiviral kinase TBK1 and subsequent production of IFN-beta. 'Lys-48'-linked polyubiquitination at Lys-150 occurring after viral infection is mediated by RNF5 and leads to proteasomal degradation.

細胞内局在 Endoplasmic reticulum membrane. Mitochondrion outer membrane. Cell membrane. Cytoplasm > perinuclear region. In response to double-stranded DNA stimulation, relocalizes to perinuclear region, where the kinase TBK1 is recruited.

画像

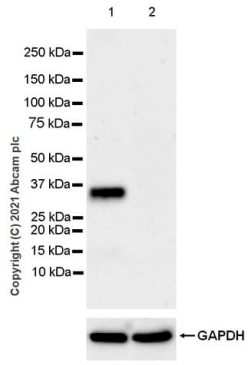


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [EPR25090-107] (ab288157)

Immunohistochemical analysis of paraffin-embedded Mouse breast cancer tissue labeling STING with ab288157 at 1/2000 (0.279 ug/ml) followed by a ready to use LeicaDS9800 (Bond®, Polymer Refine Detection). Positive staining on mouse breast cancer. The section was incubated with ab288157 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond®, Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Western blot - Anti-STING antibody [EPR25090-107] (ab288157)

All lanes : Anti-STING antibody [EPR25090-107] (ab288157) at 1/1000 dilution

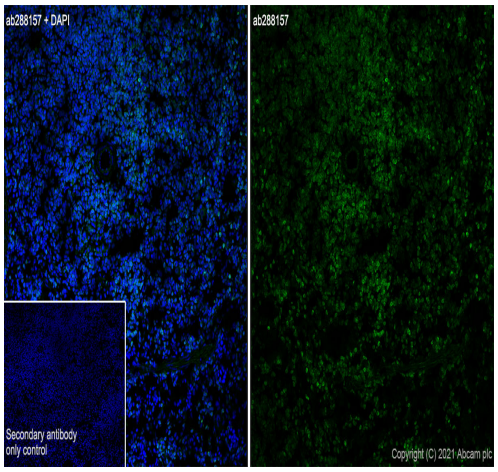
Lane 1 : Rat spleen tissue lysate at 20 µg
Lane 2 : Rat liver tissue lysate at 40 µg

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/100000 dilution

Predicted band size: 42 kDa
Observed band size: 33, 35 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

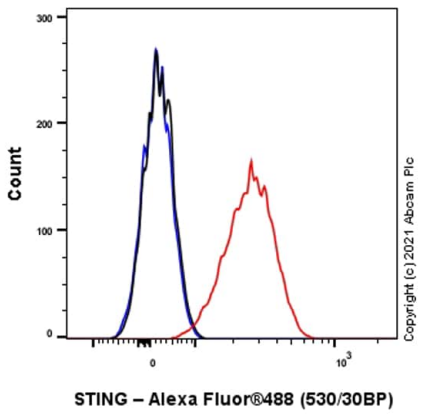
Exposure time: 81 seconds



Immunohistochemistry (Frozen sections) - Anti-STING antibody [EPR25090-107] (ab288157)

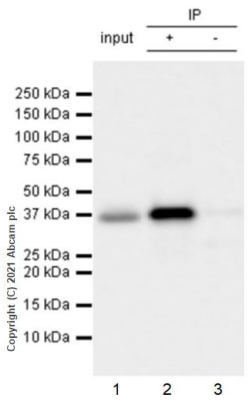
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen rat spleen (fresh) tissue labeling STING with ab288157 at 1/500 (1.114 ug/ml) dilution followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (Green). Positive staining on rat spleen is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-STING antibody [EPR25090-107] (ab288157)

Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized J774A.1 (Mouse reticulum cell sarcoma monocyte macrophage) cells labelling STING with ab288157 at 1/500 dilution (0.1ug)(Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-STING antibody [EPR25090-107] (ab288157)

STING was immunoprecipitated from 0.35 mg RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate with ab288157 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab288157 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(**ab131366**) was used at 1/5000 dilution.

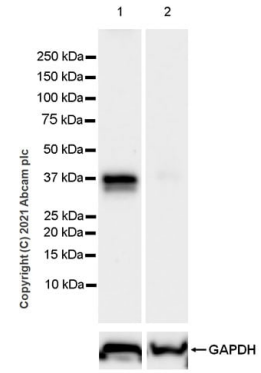
Lane 1: RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate 10 ug

Lane 2: ab288157 IP in RAW264.7 whole cell lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab288157 in RAW264.7 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 7.75 seconds



Western blot - Anti-STING antibody [EPR25090-107] (ab288157)

All lanes : Anti-STING antibody [EPR25090-107] (ab288157) at 1/1000 dilution

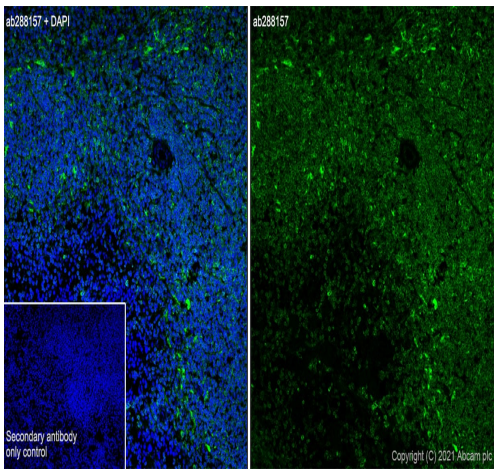
Lane 1 : Mouse spleen tissue lysate at 20 µg
Lane 2 : Mouse liver tissue lysate at 40 µg

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 42 kDa
Observed band size: 33, 35 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

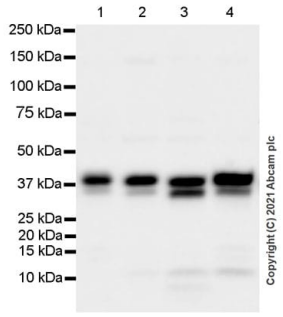
Exposure time: 26 seconds



Immunohistochemistry (Frozen sections) - Anti-STING antibody [EPR25090-107] (ab288157)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse spleen (fresh) tissue labeling STING with ab288157 at 1/500 (1.114 ug/ml) dilution followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (Green). Positive staining on mouse spleen is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



Western blot - Anti-STING antibody [EPR25090-107] (ab288157)

All lanes : Anti-STING antibody [EPR25090-107] (ab288157) at 1/1000 dilution

Lane 1 : C2C12 (mouse myoblasts myoblast) whole cell lysate
Lane 2 : RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate
Lane 3 : J774A.1 (mouse reticum cell sarcoma monocyte macrophage) whole cell lysate
Lane 4 : A20 (mouse reticum sarcoma b lymphocyte) whole cell lysate

Lysates/proteins at 20 µg per lane.

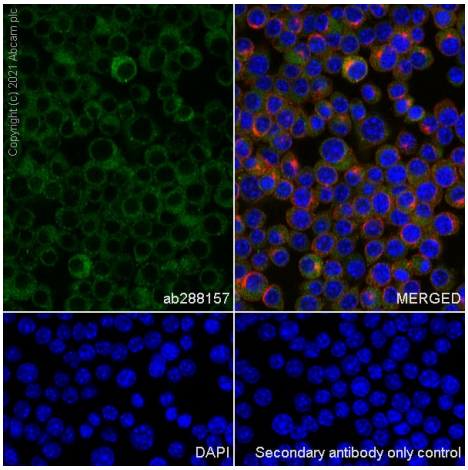
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/20000 dilution

Predicted band size: 42 kDa
Observed band size: 33.35 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Exposure time: 5.5 seconds

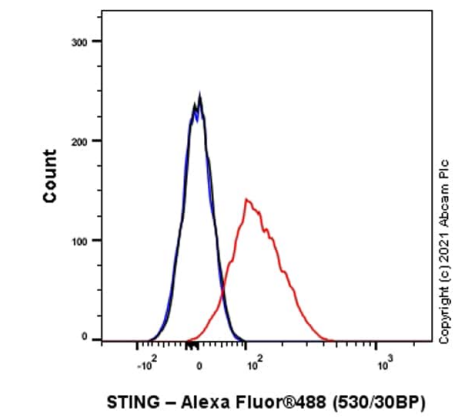
Lysates/proteins at 20 µg per lane.



Immunocytochemistry/ Immunofluorescence - Anti-STING antibody [EPR25090-107] (ab288157)

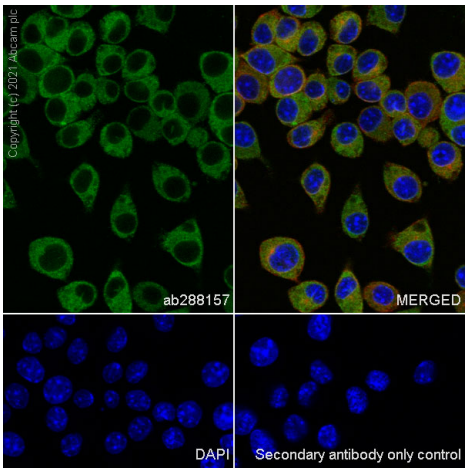
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized RAW 264.7 cells labelling STING with ab288157 at 1/50 dilution, followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green). Confocal image showing positive cytoplasmic staining in RAW 264.7 cell line. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-STING antibody [EPR25090-107] (ab288157)

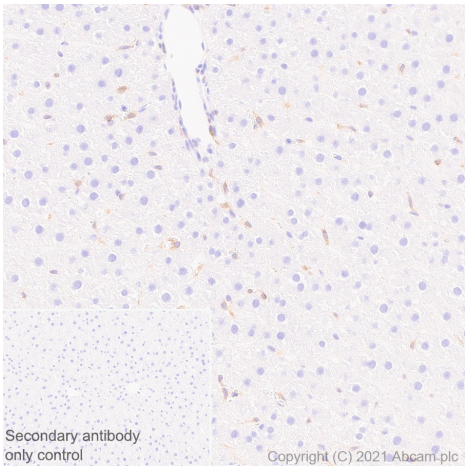
Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) cells labelling STING with ab288157 at 1/500 dilution (0.1ug)(Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-STING antibody [EPR25090-107] (ab288157)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized J774A.1 cells labelling STING with ab288157 at 1/50 dilution, followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green). Confocal image showing positive cytoplasmic staining in J774A.1 cell line. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.

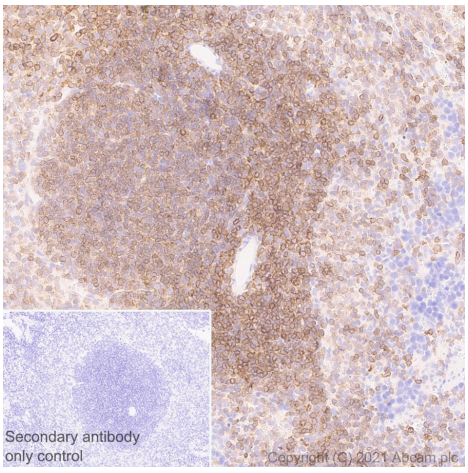


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [EPR25090-107] (ab288157)

Immunohistochemical analysis of paraffin-embedded Rat liver tissue labeling STING with ab288157 at 1/2000 (0.279 ug/ml) followed by a ready to use LeicaDS9800 (Bond®, Polymer Refine Detection). Positive staining on kupffer cells in rat liver (PMID 30561388). The section was incubated with ab288157 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond®, Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

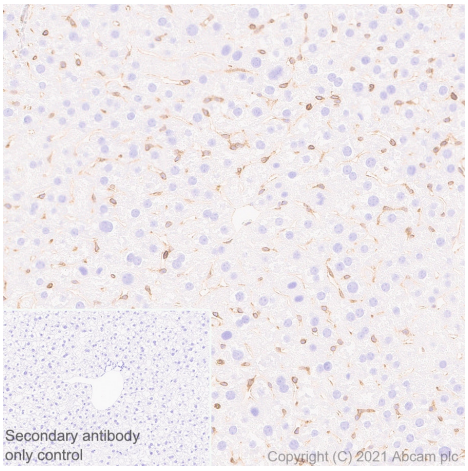


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [EPR25090-107] (ab288157)

Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labeling STING with ab288157 at 1/2000 (0.279 ug/ml) followed by a ready to use LeicaDS9800 (Bond®, Polymer Refine Detection) was used. Positive staining on rat spleen. The section was incubated with ab288157 for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond®, Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [EPR25090-107] (ab288157)

Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling STING with ab288157 at 1/2000 (0.279 ug/ml) followed by a ready to use LeicaDS9800 (Bond®, Polymer Refine Detection). Positive staining on kupffer cells in mouse liver (PMID 30561388). The section was incubated with ab288157 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

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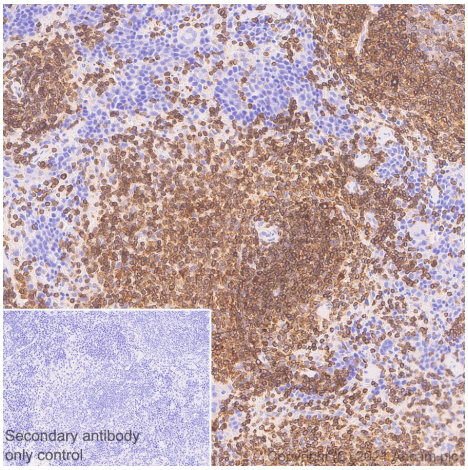

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [EPR25090-107] (ab288157)

Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling STING with ab288157 at 1/2000 (0.279 ug/ml) followed by a ready to use LeicaDS9800 (Bond®, Polymer Refine Detection). Positive staining on mouse spleen. The section was incubated with ab288157 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond®, Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

Anti-STING antibody [EPR25090-107] (ab288157)

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