

Anti-Indoleamine 2, 3-dioxygenase antibody [EPR20374] - Low endotoxin, Azide free ab224263

KO 評価済 リコンビナント RabMAb

画像数 10

製品の概要

製品名	Anti-Indoleamine 2, 3-dioxygenase antibody [EPR20374] - Low endotoxin, Azide free
製品の詳細	Rabbit monoclonal [EPR20374] to Indoleamine 2, 3-dioxygenase - Low endotoxin, Azide free
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), ICC/IF, IP, WB, IHC-P
種交差性	交差種: Human
免疫原	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Wild-type A549 Treated IFN gamma, Human ovary cancer, placenta and tonsil lysates; SK-OV-3 whole cell lysate; HeLa whole cell lysate treated with 50ng/ml Interferon-gamma (IFN-gamma) for 16 hours. IHC-P: Human spleen, tonsil, placenta and endometrium cancer tissues. ICC/IF: HeLa cells treated with IFN-gamma (50 ng/ml) for 16 hours. Flow Cyt (intra): HeLa cells treated with IFN-gamma (50 ng/ml) for 16 hours. IP: HeLa whole cell lysate treated with 50ng/ml IFN-gamma for 16h.
特記事項	<p>ab224263 is the carrier-free version of ab211017.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Our Low endotoxin, azide-free formats have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional</p>

assays.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR20374
アイソタイプ	IgG

アプリケーション

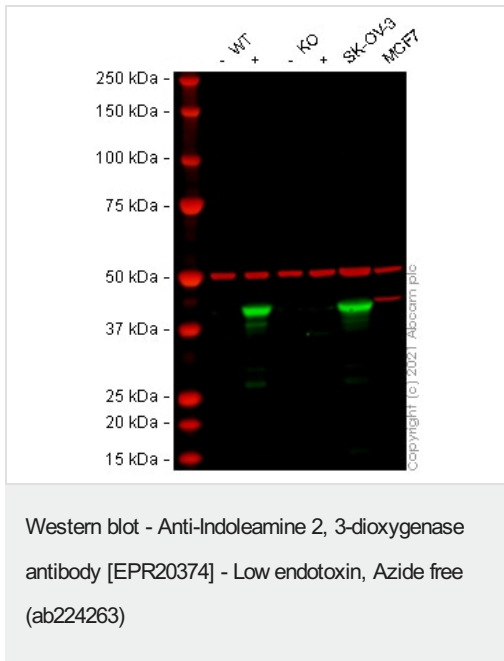
The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab224263の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		Use at an assay dependent concentration. ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 45 kDa (predicted molecular weight: 45 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

ターゲット情報

機能	Catalyzes the cleavage of the pyrrol ring of tryptophan and incorporates both atoms of a molecule of oxygen.
パスウェイ	Amino-acid degradation; L-tryptophan degradation via kynurenine pathway; L-kynurenine from L-tryptophan: step 1/2.
配列類似性	Belongs to the indoleamine 2,3-dioxygenase family.

画像



All lanes : Anti-Indoleamine 2, 3-dioxygenase antibody [EPR20374] ([ab211017](#)) at 1/1000 dilution

Lane 1 : Wild-type A549 Vehicle Control IFN gamma (0 ng/ml, 48 h) cell lysate

Lane 2 : Wild-type A549 Treated IFN gamma (25 ng/ml, 48 h) cell lysate

Lane 3 : IDO1 knockout A549 Vehicle Control IFN gamma (0 ng/ml, 48 h) cell lysate

Lane 4 : IDO1 knockout A549 Treated IFN gamma (25 ng/ml, 48 h) cell lysate

Lane 5 : SK-OV-3 cell lysate

Lane 6 : MCF7 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

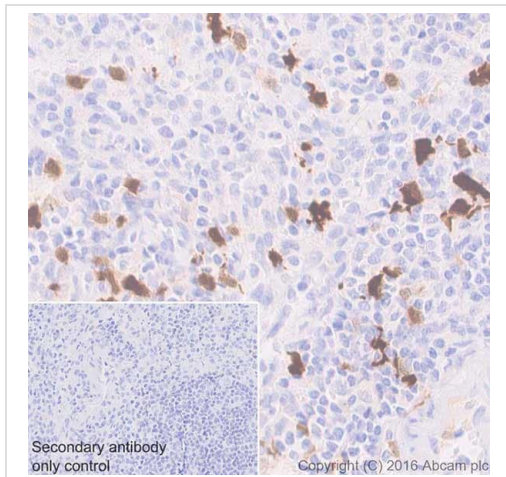
Predicted band size: 45 kDa

Observed band size: 40 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab211017](#)).

Lanes 1 - 6: Merged signal (red and green). Green - [ab211017](#) observed at 40 kDa. Red - loading control [ab7291](#) (Mouse anti-Alpha Tubulin [DM1A]) observed at 55 kDa.

[ab211017](#) was shown to react with Indoleamine 2, 3-dioxygenase in treated wild-type A549 cells in Western blot with no signal observed in treated IDO1 knockout cell line [ab266949](#) (IDO1 knockout cell lysate [ab256948](#)). Wild-type A549 and IDO1 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with [ab211017](#) and [ab7291](#) (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [EPR20374] - Low endotoxin, Azide free (ab224263)

Immunohistochemical analysis of paraffin-embedded human spleen tissue labeling Indoleamine 2, 3-dioxygenase with **ab211017** at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

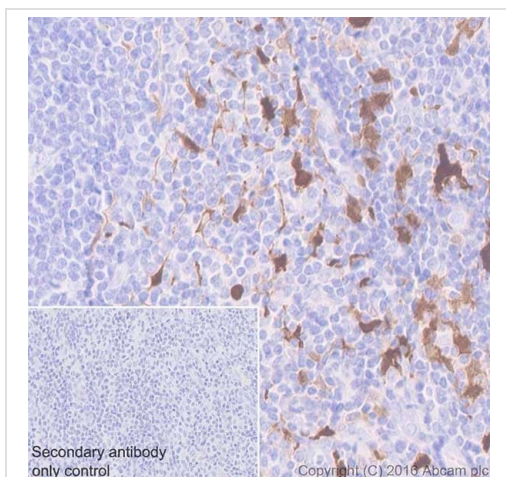
Cytoplasmic and nuclear staining on dendritic cells of human spleen is observed (PMID: 21328335, PMID: 25271151).

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab211017**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [EPR20374] - Low endotoxin, Azide free (ab224263)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling Indoleamine 2, 3-dioxygenase with **ab211017** at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

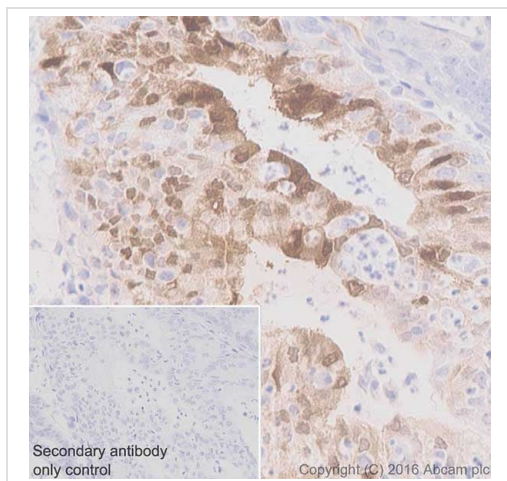
Cytoplasmic and nuclear staining on dendritic cells of human tonsil is observed (PMID: 21328335, PMID: 25271151).

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab211017**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [EPR20374] - Low endotoxin, Azide free (ab224263)

Immunohistochemical analysis of paraffin-embedded human endometrium cancer tissue labeling Indoleamine 2, 3-dioxygenase with **ab211017** at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

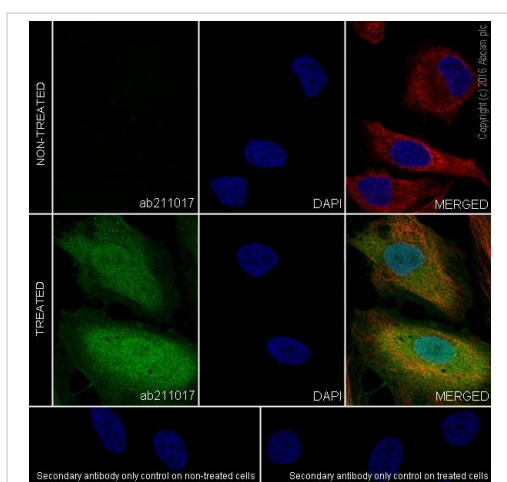
Cytoplasmic and nuclear staining on human endometrium cancer is observed (PMID: 26155395).

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab211017**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Indoleamine 2, 3-dioxygenase antibody [EPR20374] - Low endotoxin, Azide free (ab224263)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cell line from cervix adenocarcinoma) cells, treated with 50ng/ml IFN- γ for 16 hours or untreated, labeling Indoleamine 2, 3-dioxygenase with **ab211017** at 1/2000 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor[®] 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

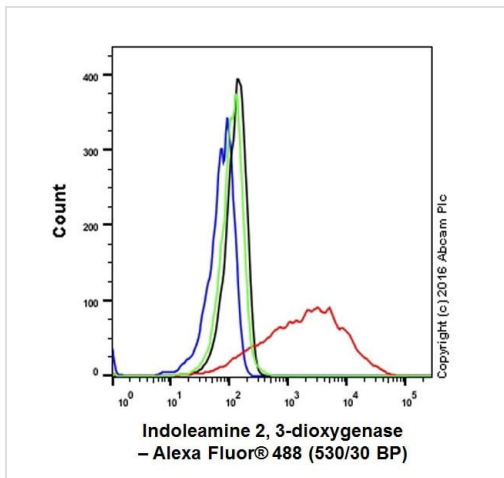
The signal increased after treatment with IFN- γ (50 ng/ml) for 16 hours on HeLa cells.

The nuclear counterstain is DAPI (blue).

Tubulin is detected with **ab195889** (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594)) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit IgG (Alexa Fluor[®] 488) (**ab150077**) at 1/1000 dilution.

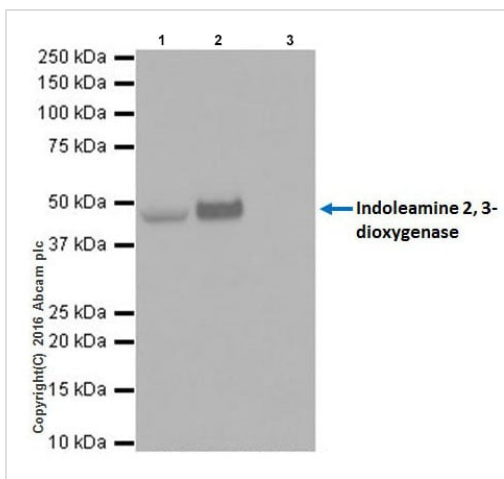
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab211017](#)).



Flow Cytometry (Intracellular) - Anti-Indoleamine 2, 3-dioxygenase antibody [EPR20374] - Low endotoxin, Azide free (ab224263)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HeLa (Human epithelial cell line from cervix adenocarcinoma) cells, treated with 50ng/ml IFN- γ for 16h (red) or untreated (green), labeling Indoleamine 2, 3-dioxygenase with [ab211017](#) at 1/500 dilution compared with a rabbit monoclonal IgG isotype control ([ab172730](#); black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab211017](#)).



Immunoprecipitation - Anti-Indoleamine 2, 3-dioxygenase antibody [EPR20374] - Low endotoxin, Azide free (ab224263)

Indoleamine 2, 3-dioxygenase was immunoprecipitated from 0.35 mg of HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate treated with 50ng/ml IFN- γ for 16h with [ab211017](#) at 1/40 dilution.

Western blot was performed from the immunoprecipitate using [ab211017](#) at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

Lane 1: HeLa treated with 50ng/ml IFN- γ for 16h whole cell lysate 10 μ g (Input).

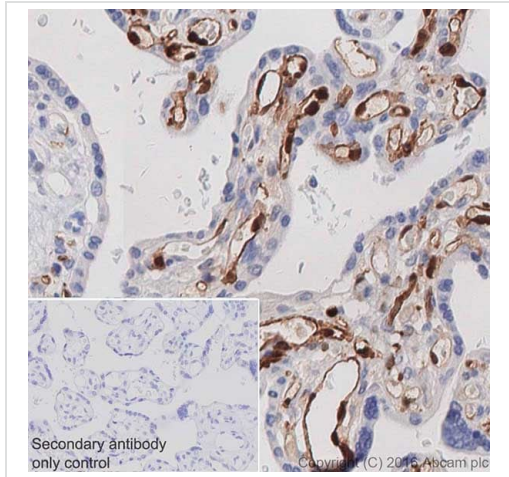
Lane 2: [ab211017](#) IP in HeLa treated with 50ng/ml IFN- γ for 16h whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab211017](#) in HeLa treated with 50ng/ml IFN- γ for 16h whole cell lysate.

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

Exposure time: 1 second.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab211017](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [EPR20374] - Low endotoxin, Azide free (ab224263)

This IHC data was generated using the same anti-IDO antibody clone [EPR20374] in a different buffer formulation (cat# **ab211017**).

Immunohistochemical analysis of paraffin-embedded human placenta tissue labeling Indoleamine 2, 3-dioxygenase with **ab211017** at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Cytoplasmic and nuclear staining on endothelial cells of human placenta is observed (PMID: 21328335, PMID: 25271151).

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Normal tissue samples				Malignant tissue samples			
Human cardiac muscle	x	Human placenta	x (stromal cells ✓)	Clear cell carcinoma of human kidney	x (stromal cells ✓)	Human glioma	x
Human cerebrum	x	Human skeletal muscle	x (stromal cells ✓)	Human bladder cancer	x (stromal cells ✓)	Human hepatocellular carcinoma	x
Human colon	x (stromal cells ✓)	Human skin	x	Human breast carcinoma	x	Human lung carcinoma	x (stromal cells ✓)
Human endometrium	✓	Human spleen	✓	Human cervical carcinoma	x (stromal cells ✓)	Human ovarian carcinoma	x (stromal cells ✓)
Human kidney	x	Human stomach	x (stromal cells ✓)	Human colon carcinoma	x (stromal cells ✓)	Human pancreatic carcinoma	x (stromal cells ✓)
Human liver	x (stromal cells ✓)	Human testis	x	Human endometrial carcinoma	✓	Human prostatic hyperplasia	x (stromal cells ✓)
Human lung	x	Human thyroid	x	Human gastric adenocarcinoma	x (stromal cells ✓)	Human thyroid carcinoma	x
Human mammary gland	x	Human tonsil	✓				
Human pancreas	x						

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [EPR20374] - Low endotoxin, Azide free (ab224263)

Tissue Microarrays stained for " Anti-Indoleamine 2, 3-dioxygenase antibody [EPR20374]" using "**ab211017**" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested.

The sections were pre-treated using Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). The sections were incubated with **ab211017** at +4°C overnight followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer).

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Anti-Indoleamine 2, 3-dioxygenase antibody
[EPR20374] - Low endotoxin, Azide free (ab224263)

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