abcam

Product datasheet

Anti-Met (c-Met) antibody [4AT44] ab59884

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製品の概要

製品名	Anti-Met (c-Met) antibody [4AT44]
製品の詳細	Mouse monoclonal [4AT44] to Met (c-Met)
由来種	Mouse
アプリケーション	**適用あり:** WB, ELISA, IHC-P, ICC/IF
種交差性	**交差種:** Mouse, Human
免疫原	Recombinant full length protein corresponding to Human Met (c-Met). This monoclonal antibody is generated from mice immunized with purified recombinant protein encoding the catalytic domain of human Met Database link: **4233**
ポジティブ・コントロール	HepG2 cell lysate.

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 long term. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.09% Sodium azide Constituent: 99% PBS
精製度	Protein G purified
特記事項（精製）	ab59884 is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.
ポリ/モノ	モノクローナル
クローン名	4AT44
アイソタイプ	IgG1

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ab59884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
WB		1/100 - 1/500. Detects a band of approximately 135 kDa (predicted molecular weight: 156 kDa).
ELISA		1/1000.
IHC-P	★★★★☆ (1)	1/50 - 1/100.
ICC/IF		1/100.

ターゲット情報

機能

Receptor for hepatocyte growth factor and scatter factor. Has a tyrosine-protein kinase activity. Functions in cell proliferation, scattering, morphogenesis and survival.

関連疾患

Note=Activation of MET after rearrangement with the TPR gene produces an oncogenic protein.
Note=Defects in MET may be associated with gastric cancer.
Defects in MET are a cause of hepatocellular carcinoma (HCC) [MIM:114550].
Defects in MET are a cause of renal cell carcinoma papillary (RCCP) [MIM:605074]. It is a subtype of renal cell carcinoma tending to show a tubulo-papillary architecture formed by numerous, irregular, finger-like projections of connective tissue. Renal cell carcinoma is a heterogeneous group of sporadic or hereditary carcinoma derived from cells of the proximal renal tubular epithelium. It is subclassified into common renal cell carcinoma (clear cell, non-papillary carcinoma), papillary renal cell carcinoma, chromophobe renal cell carcinoma, collecting duct carcinoma with medullary carcinoma of the kidney, and unclassified renal cell carcinoma.
Note=A common allele in the promoter region of the MET shows genetic association with susceptibility to autism in some families. Functional assays indicate a decrease in MET promoter activity and altered binding of specific transcription factor complexes.
Note=MET activating mutations may be involved in the development of a highly malignant, metastatic syndrome known as cancer of unknown primary origin (CUP) or primary occult malignancy. Systemic neoplastic spread is generally a late event in cancer progression. However, in some instances, distant dissemination arises at a very early stage, so that metastases reach clinical relevance before primary lesions. Sometimes, the primary lesions cannot be identified in spite of the progresses in the diagnosis of malignancies.

配列類似性

Belongs to the protein kinase superfamily. Tyr protein kinase family.
Contains 3 IPT/TIG domains.
Contains 1 protein kinase domain.
Contains 1 Sema domain.

ドメイン

The kinase domain is involved in SPSB1 binding.

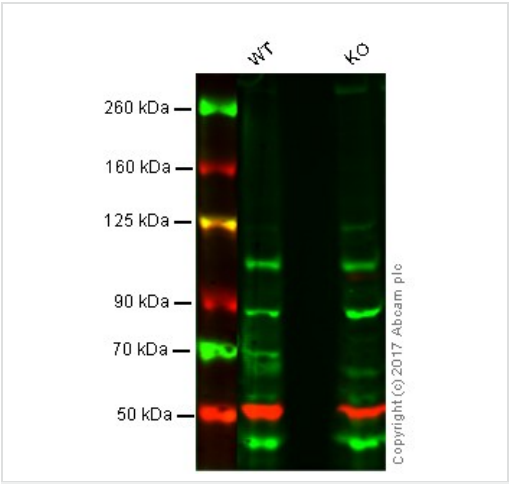
翻訳後修飾

Dephosphorylated by PTPRJ at Tyr-1349 and Tyr-1365.

細胞内局在

Membrane.

画像



Western blot - Anti-Met (c-Met) antibody [4AT44] (ab59884)

Lane 1: Wild type HAP1 whole cell lysate (20 µg)
Lane 2: Empty knockout HAP1 whole cell lysate (0 µg)
Lane 3: MET whole cell lysate (20 µg)
Lanes 1 - 3: Merged signal (red and green). Green - ab59884 observed at 155 kDa. Red - loading control, **ab176560**, observed at 50 kDa.

ab59884 was shown not to specifically react with Met (c-Met) when Met (c-Met) knockout samples were used. Wild-type and Met (c-Met) knockout samples were subjected to SDS-PAGE. Ab59884 and **ab176560** (Rabbit anti alpha Tubulin loading control) were incubated overnight at 4°C at 100 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed **ab216772** and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed **ab216777** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.

Western blot - Anti-Met (c-Met) antibody [4AT44] (ab59884)

All lanes : Anti-Met (c-Met) antibody [4AT44] (ab59884) at 1/1000 dilution

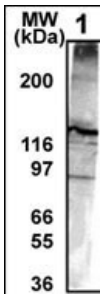
Lane 1 : HeLa Cell Lysate
Lane 2 : HepG2 Cell Lysate
Lane 3 : Cos-7 Cell Lysate

Lysates/proteins at 35 µg per lane.

Secondary
All lanes : Goat anti-mouse IgG H+L HRP conjugated at 1/3000 dilution

Predicted band size: 156 kDa

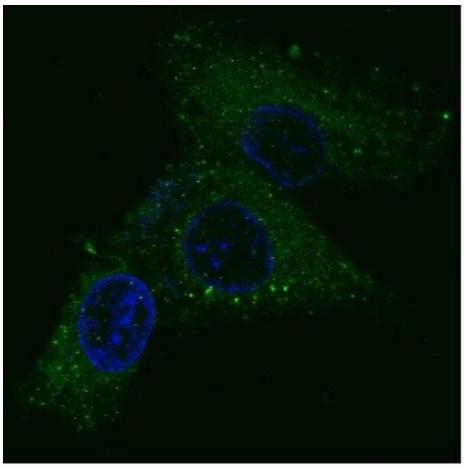
Incubation time was overnight at 4°C. Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Met (c-Met) antibody [4AT44] (ab59884)

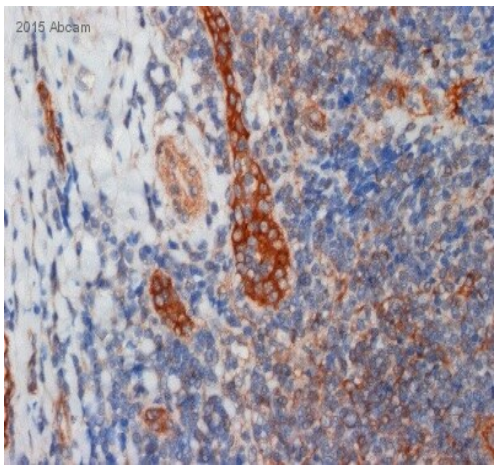
Anti-Met (c-Met) antibody [4AT44] (ab59884) at 1/100 dilution + HepG2 cell lysate at 10 µg

Predicted band size: 156 kDa
Observed band size: 135 kDa



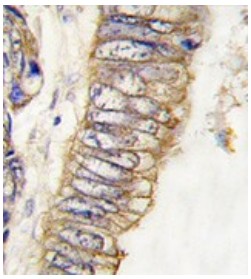
Immunocytochemistry/ Immunofluorescence - Anti-Met (c-Met) antibody [4AT44] (ab59884)

Fluorescent confocal image of HepG2 cells stained with ab59884 antibody. HepG2 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with ab59884 primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-mouse antibody (**ab150105**) (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 µg/ml, 5 min).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Met (c-Met) antibody [4AT44] (ab59884)
This image is courtesy of an anonymous Abreview

ab59884 staining Met (c-Met) in human tonsil tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde; antigen retrieval was by heat mediation. Samples were incubated with the undiluted primary antibody. An undiluted biotin-conjugated goat anti-mouse IgG polyclonal was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Met (c-Met) antibody [4AT44] (ab59884)

Immunohistochemical staining of Met (c-Met) in Human colon carcinoma tissue sections (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections) with ab59884 at a dilution of 1/25. Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hours at 38°C. Antigen retrieval was heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A HRP-conjugated goat anti-mouse polyclonal (ready to use) was used as the secondary antibody.

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