abcam

ab254492

Anti-Met (c-Met) antibody [EPR22436-24] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR22436-24
Purification technique	Affinity purification Protein A
Concentration	1.008 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Mouse
Dilution info	-

Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	-
Notes	-

WB

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Not recommended

Species	Mouse
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information Met

Function	Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to hepatocyte growth factor/HGF ligand. Regulates many physiological processes including proliferation, scattering, morphogenesis and survival. Ligand binding at the cell surface induces autophosphorylation of MET on its intracellular domain that provides docking sites for downstream signaling molecules. Following activation by ligand, interacts with the PI3-kinase subunit PIK3R1, PLCG1, SRC, GRB2, STAT3 or the adapter GAB1. Recruitment of these downstream effectors by MET leads to the activation of several signaling cascades including the RAS-ERK, PI3 kinase-AKT, or PLCgamma-PKC. The RAS-ERK activation is associated with the morphogenetic effects while PI3K/AKT coordinates prosurvival effects. During embryonic development, MET signaling plays a role in gastrulation, development and migration of neuronal precursors, angiogenesis and kidney formation. During skeletal muscle development, it is crucial for the migration of muscle progenitor cells and for the proliferation of secondary myoblasts (PubMed:30777867). In adults, participates in wound healing as well as organ regeneration and tissue remodeling. Also promotes differentiation and proliferation of hematopoietic cells (By similarity). May regulate cortical bone osteogenesis (PubMed:26637977). (Microbial infection) Acts as a receptor for Listeria monocytogenes internalin InlB, mediating entry of the pathogen into cells.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab254492 is the carrier-free version of ab216330.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

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 batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide

and glycerol. 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.

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.

Compatibility
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.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

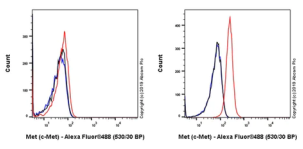
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

3 product images



Flow Cytometry - Anti-Met (c-Met) antibody [EPR22436-24] - BSA and Azide free (ab254492)

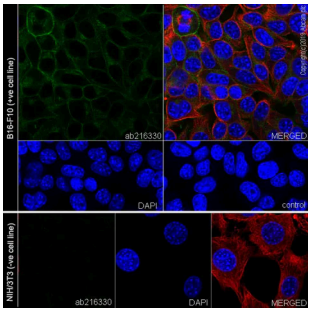
Met (c-Met) Flow Cytometry staining using rabbit Anti-Met (c-Met) antibody

Flow cytometric analysis of 4% paraformaldehyde-fixed NIH/3T3 (Mouse embryonic fibroblast, Left) / B16-F10 (Mouse melanoma mixture of spindle-shaped and epithelial-like cells, Right) labeling Met (c-Met) with ab216330 at 1/500 dilution (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, ab150077) was used as the secondary antibody at 1/500 dilution.
Negative control: NIH/3T3(PMID: 21496277, 8197126, 9888438).

Gated on viable cells.

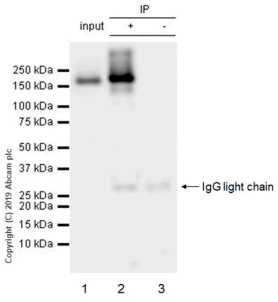
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab216330).



Immunocytochemistry/ Immunofluorescence - Anti-Met (c-Met) antibody [EPR22436-24] - BSA and Azide free (ab254492)

Met (c-Met) Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Met (c-Met) antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized B16-F10 (mouse melanoma mixture of spindle-shaped and epithelial-like cells) and NIH/3T3 (mouse embryonic fibroblast) cells labelling Met (c-Met) with ab216330 with ab216330 at 1/50 dilution, followed by a AlexaFluor®488 Goat anti-Rabbit secondary (ab150077) at 1/1000 dilution (green). Confocal image showing membranous and cytoplasmic staining in B16-F10 cell line. Tubulin was counterstained using an Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution. The nuclear counterstain was DAPI (Blue).This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab216330).
Negative control: NIH/3T3 (PMID: 21496277, 8197126, 9888438)



Immunoprecipitation - Anti-Met (c-Met) antibody [EPR22436-24] - BSA and Azide free (ab254492)

Met (c-Met) was immunoprecipitated from 0.35mg of B16-F10 (Mouse melanoma mixture of spindle-shaped and epithelial-like cells) whole cell lysate using ab216330 at 1/30 dilution. WB was performed on the immunoprecipitate using ab216330 at 1/1000 dilution, followed by the VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution.

Lane 1: B16-F10 whole cell lysate 10µg (input).
Lane 2: ab216330 IP in B16-F10 whole cell lysate.
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab216330 in B16-F10 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.
Exposure time: 30 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab216330).

All lanes:
Immunoprecipitation - Anti-Met (c-Met) antibody [EPR22436-24] (ab216330)

Predicted band size: 155 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.