

Product datasheet

Anti-ARMET/ARP antibody [EPR22538-206] ab253243

Recombinant RabMAb

6 Images

Overview

Product name	Anti-ARMET/ARP antibody [EPR22538-206]
Description	Rabbit monoclonal [EPR22538-206] to ARMET/ARP
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IP, Flow Cyt (Intra) Unsuitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF: HeLa cells. Flow Cyt (intra): HeLa cells. WB: HeLa and HT-1080 whole cell lysate. His-tagged human ARMET/ARP recombinant protein. IP: HeLa whole cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</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>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22538-206

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab253243 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 18 kDa (predicted molecular weight: 20 kDa).
ICC/IF		1/100.
IP		1/30.
Flow Cyt (Intra)		1/600.

Application notes

Is unsuitable for IHC-P.

Target

Function

Selectively promotes the survival of dopaminergic neurons of the ventral mid-brain. Modulates GABAergic transmission to the dopaminergic neurons of the substantia nigra. Enhances spontaneous, as well as evoked, GABAergic inhibitory postsynaptic currents in dopaminergic neurons (By similarity). Inhibits cell proliferation and endoplasmic reticulum (ER) stress-induced cell death.

Sequence similarities

Belongs to the ARMET family.

Domain

The N-terminal region may be responsible for neurotrophic activity while the C-terminal region may play a role in the ER stress response.

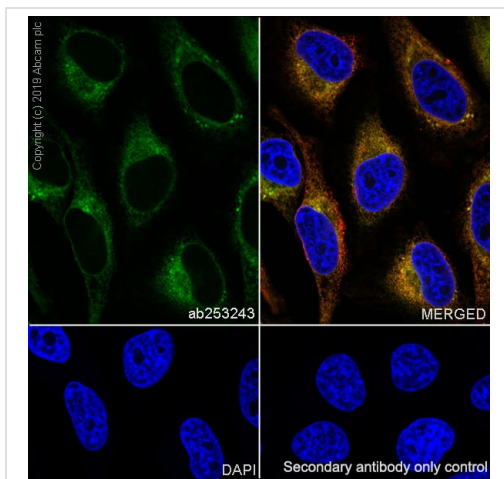
Post-translational modifications

May contain sialic acid residues.

Cellular localization

Secreted.

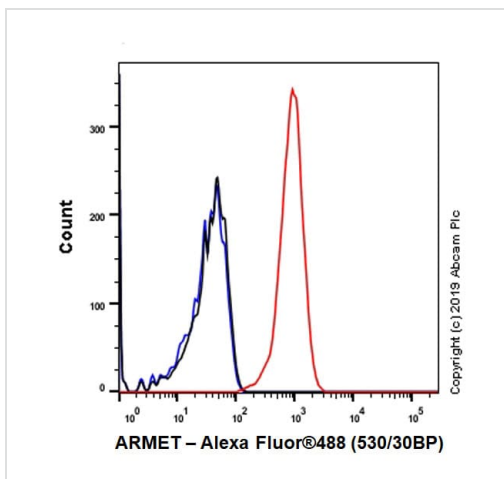
Images



Immunocytochemistry/ Immunofluorescence - Anti-ARMET/ARP antibody [EPR22538-206] (ab253243)

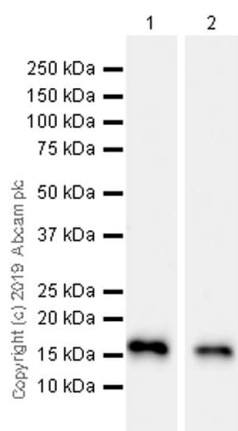
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labeling ARMET/ARP with ab253243 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining in HeLa cell line. The nuclear counterstain is DAPI (blue). Counterstained with [ab12223](#) Anti-KDEL antibody - Endoplasmic reticulum Marker (Mouse monoclonal) [ab150120](#) AlexaFluor®594 Goat anti-Mouse secondary.

Secondary antibody only control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-ARMET/ARP antibody [EPR22538-206] (ab253243)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cell line labeling ARMET/ARP with ab253243 at 1/600 (red) compared with a Rabbit monoclonal IgG ([ab172730](#)) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)), at 1/2000 dilution was used as the secondary antibody.



Western blot - Anti-ARMET/ARP antibody
[EPR22538-206] (ab253243)

All lanes : Anti-ARMET/ARP antibody [EPR22538-206]
(ab253243) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell),
whole cell lysate

Lane 2 : HT-1080 (human fibrosarcoma epithelial cell), whole cell
lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

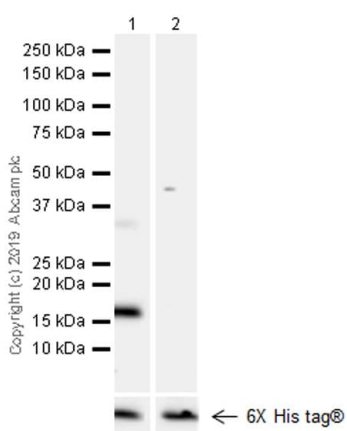
Predicted band size: 20 kDa

Observed band size: 18 kDa

Exposure time: 59 seconds

The expression profile/molecular weight observed is consistent with
what has been described in the literature (PMID: 22637475).

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-ARMET/ARP antibody
[EPR22538-206] (ab253243)

All lanes : Anti-ARMET/ARP antibody [EPR22538-206]
(ab253243) at 1/1000 dilution

Lane 1 : His-tagged human ARMET/ARP recombinant protein 20
ng

Lane 2 : His-tagged human CDNF recombinant protein 20 ng

Secondary

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

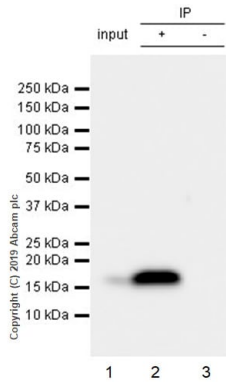
Predicted band size: 20 kDa

Observed band size: 18 kDa

Exposure time: 10 seconds

No cross reactivity was found for CDNF.

Blocking/Dilution: 5% NFDm/TBST.



Immunoprecipitation - Anti-ARMET/ARP antibody
[EPR22538-206] (ab253243)

ARMET/ARP was immunoprecipitated from 0.35 mg HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate with ab253243 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab253243 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used at 1/5000 dilution.

Lane 1: HeLa whole cell lysate 10 µg (Input).

Lane 2: ab253243 IP in HeLa whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab253243 in HeLa whole cell lysate.

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: 15 seconds.

Why choose a recombinant antibody?



Anti-ARMET/ARP antibody [EPR22538-206]
(ab253243)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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