

Product datasheet

Anti-TTK/Mps1 antibody [N1] - BSA free ab11108

★★★★★ 8 Abreviews 20 References 5 Images

Overview

Product name	Anti-TTK/Mps1 antibody [N1] - BSA free
Description	Mouse monoclonal [N1] to TTK/Mps1 - BSA free
Host species	Mouse
Tested applications	Suitable for: Flow Cyt, ICC/IF, IP, WB
Species reactivity	Reacts with: Human, Recombinant fragment
Immunogen	Recombinant fragment within Human TTK/Mps1 aa 1-900. The exact sequence is proprietary. (catalytically inactive - D663A)
Epitope	This antibody recognizes an epitope in the N-terminal region of Mps1.
Positive control	In Flow Cytometry, this antibody gave a positive signal in methanol fixed/Tween permeabilised HeLa cells.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: PBS, 6.97% L-Arginine</p>
Purity	Protein G purified
Clonality	Monoclonal

Clone number	N1
Myeloma	PAIB3Ag81
Isotype	IgG1

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab11108 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
Flow Cyt		Use 2µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF	★☆☆☆☆ (1)	Use a concentration of 1 µg/ml.
IP	★★★★★ (2)	Use at an assay dependent concentration.
WB	★★★★★ (5)	Use a concentration of 1 µg/ml. Detects a band of approximately 100 kDa (predicted molecular weight: 95 kDa). NOT SUITABLE for blocking with BSA. Block in 5% milk for 1 hour.

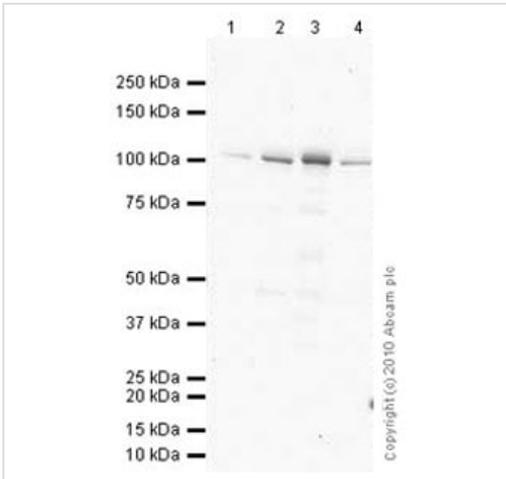
Target

Function Phosphorylates proteins on serine, threonine, and tyrosine. Probably associated with cell proliferation. Essential for chromosome alignment by enhancing AURKB activity (via direct CDCA8 phosphorylation) at the centromere, and for the mitotic checkpoint.

Tissue specificity Present in rapidly proliferating cell lines.

Sequence similarities Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Contains 1 protein kinase domain.

Images



Western blot - Anti-TTK/Mps1 antibody [N1] - BSA free (ab11108)

All lanes : Anti-TTK/Mps1 antibody [N1] - BSA free (ab11108) at 1 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2 : HeLa (Human epithelial carcinoma cell line) Nuclear Lysate

Lane 3 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

Lane 4 : Jurkat nuclear extract lysate ([ab14844](#))

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

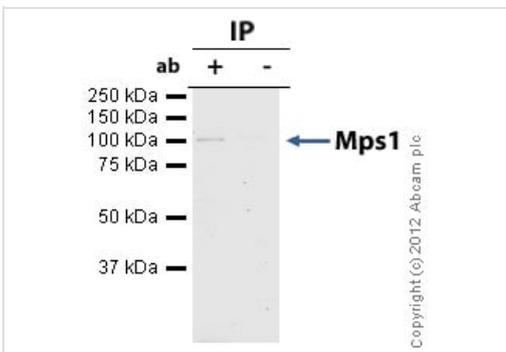
Performed under reducing conditions.

Predicted band size: 95 kDa

Observed band size: 100 kDa

Exposure time: 8 minutes

NOTE: MILK was used to block non-specific binding, rather than BSA.



Immunoprecipitation - Anti-TTK/Mps1 antibody [N1] - BSA free (ab11108)

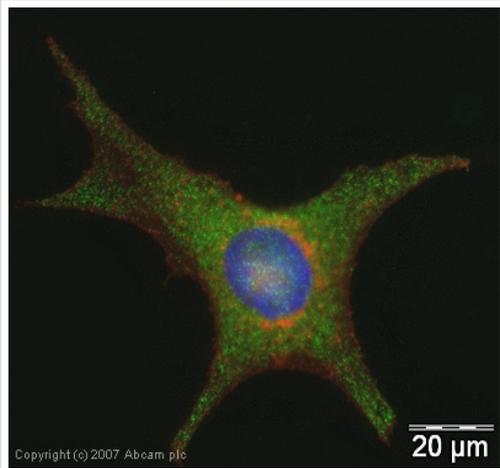
TTK/Mps1 was immunoprecipitated using 0.5mg Jurkat whole cell extract, 5µg of Mouse monoclonal to Mps1 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, Jurkat whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

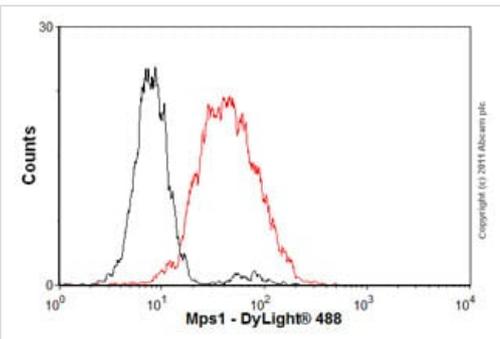
Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab11108.

Secondary: Goat polyclonal to mouse IgG light chain specific (HRP) at 1/5000 dilution.

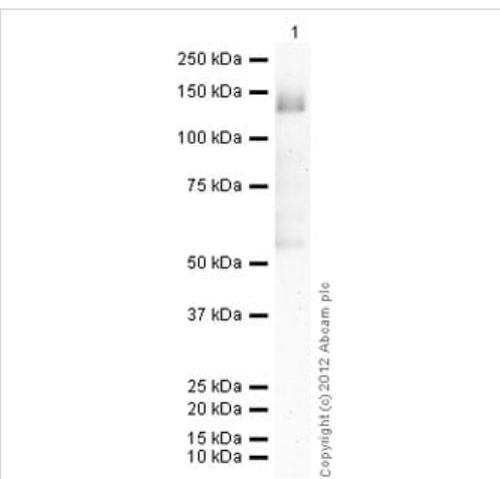
Band: 100kDa: TTK/Mps1



Immunocytochemistry/ Immunofluorescence - Anti-TTK/Mps1 antibody [N1] - BSA free (ab11108)



Flow Cytometry - Anti-TTK/Mps1 antibody [N1] - BSA free (ab11108)



Western blot - Anti-TTK/Mps1 antibody [N1] - BSA free (ab11108)

ICC/IF image of ab11108 stained human HeLa cells. The cells were PFA fixed (10 min), permeabilised in TBS-T (20 min) and incubated with the antibody (ab11108, 1 µg/ml) for 1h at room temperature. 1% BSA / 10% normal goat serum / 0.3M glycine was used to quench autofluorescence and block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor[®] 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor[®] 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue).

Overlay histogram showing HeLa cells stained with ab11108 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab11108, 2 µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight[®] 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2 µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

Anti-TTK/Mps1 antibody [N1] - BSA free (ab11108) at 10 µg/ml + Recombinant human TTK/Mps1 protein (ab89589) at 0.01 µg

Secondary

Goat Anti-Mouse IgG H&L (HRP) preadsorbed (ab97040) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 95 kDa

Exposure time: 8 minutes

ab11108 recognizes the full length tagged recombinant TTK/Mps1 protein ([ab89589](#)) which has an expected molecular weight of 130 kDa.

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

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