

Product datasheet

Anti-CHMP1a antibody [EPR11939] ab178686

Recombinant RabMAb

3 Images

Overview

Product name	Anti-CHMP1a antibody [EPR11939]
Description	Rabbit monoclonal [EPR11939] to CHMP1a
Host species	Rabbit
Tested applications	Suitable for: WB, Flow Cyt, IP Unsuitable for: ICC/IF or IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human CHMP1a aa 100 to the C-terminus (Cysteine residue). The exact sequence is proprietary. Database link: Q9HD42
Positive control	HeLa, 293T and MCF-7 cell lysates. Permeabilized 293T cells. Immunoprecipitation pellet from MCF-7 cell lysate.
General notes	Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . This product is a recombinant rabbit monoclonal antibody .

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: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR11939
Isotype	IgG

Applications

Applications

Our [Abpromise guarantee](#) covers the use of **ab178686** 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 - 1/5000. Predicted molecular weight: 22 kDa.
Flow Cyt		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		1/10 - 1/100.

Application notes Is unsuitable for ICC/IF or IHC-P.

Target

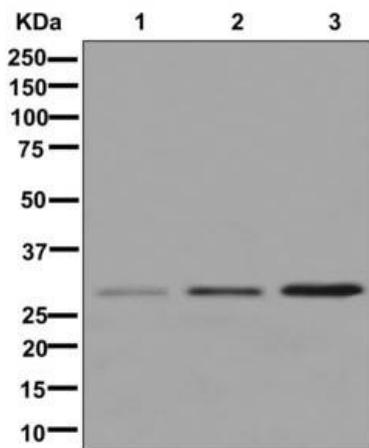
Function Probable peripherally associated component of the endosomal sorting required for transport complex III (ESCRT-III) which is involved in multivesicular bodies (MVBs) formation and sorting of endosomal cargo proteins into MVBs. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. The MVB pathway appears to require the sequential function of ESCRT-O, -I, -II and -III complexes. ESCRT-III proteins mostly dissociate from the invaginating membrane before the ILV is released. The ESCRT machinery also functions in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis and the budding of enveloped viruses (HIV-1 and other lentiviruses). ESCRT-III proteins are believed to mediate the necessary vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA ATPase VPS4. Involved in cytokinesis. Involved in recruiting VPS4A and/or VPS4B to the midbody of dividing cells. May also be involved in chromosome condensation. Targets the Polycomb group (PcG) protein BMI1/PCGF4 to regions of condensed chromatin. May play a role in stable cell cycle progression and in PcG gene silencing.

Tissue specificity Expressed in placenta, cultured skin fibroblasts and in osteoblast cell line MG-63.

Sequence similarities Belongs to the SNF7 family.

Cellular localization Cytoplasm. Endosome membrane. Nucleus matrix. The cytoplasmic form is partially membrane-associated and localizes to early endosomes. The nuclear form remains associated with the chromosome scaffold during mitosis. On overexpression, it localizes to nuclear bodies characterized by nuclease-resistant condensed chromatin.

Images



Western blot - Anti-CHMP1a antibody [EPR11939] (ab178686)

All lanes : Anti-CHMP1a antibody [EPR11939] (ab178686) at 1/1000 dilution

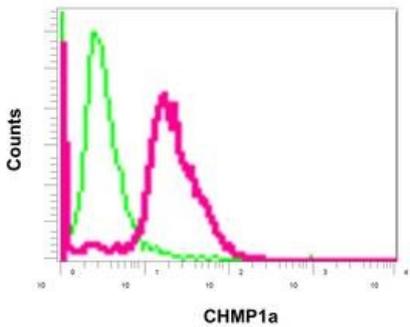
Lane 1 : HeLa cell lysates

Lane 2 : 293T cell lysates

Lane 3 : MCF-7 cell lysates

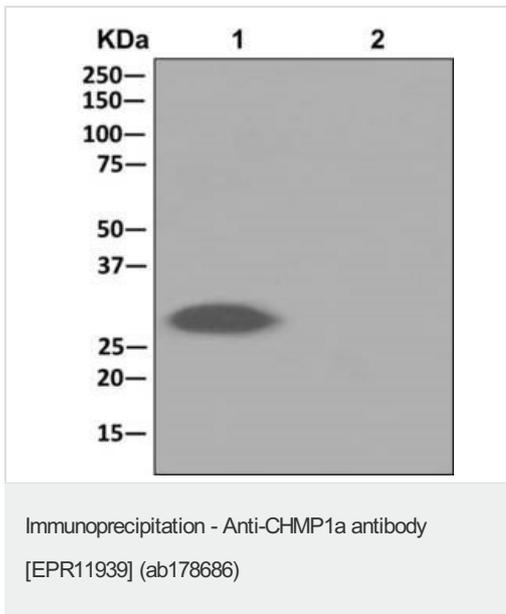
Lysates/proteins at 10 µg per lane.

Predicted band size: 22 kDa



Flow Cytometry - Anti-CHMP1a antibody [EPR11939] (ab178686)

Flow cytometric analysis of permeabilized 293T cells using ab178686 at a 1/10 dilution (red) or a rabbit IgG (negative) (green).



Western blot analysis on immunoprecipitation pellet from (Lane 1) MCF-7 cell lysate or (Lane 2) 1XPBS (negative control) using ab178686 at a 1/10 dilution for IP and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.

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