

Product datasheet

Anti-Proteasome maturation protein antibody [EPR10177] α b170865

Recombinant RabMAb

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Overview

Product name	Anti-Proteasome maturation protein antibody [EPR10177]
Description	Rabbit monoclonal [EPR10177] to Proteasome maturation protein
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, IP Unsuitable for: ICC/IF
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat
Immunogen	Synthetic peptide within Human Proteasome maturation protein (Cysteine residue). The exact sequence is proprietary. Database link: Q9Y244
Positive control	HeLa, SW480, HL60 and Jurkat cell lysates; Human skin tissue; Permeabilized Jurkat cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR10177
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab170865 in the following tested applications.

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

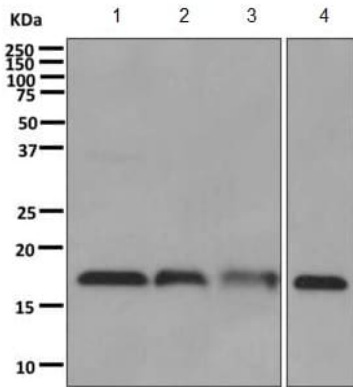
Application	Abreviews	Notes
Flow Cyt (Intra)		1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/5000. Predicted molecular weight: 16 kDa.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
IP		1/10 - 1/100.

Application notes Is unsuitable for ICC/IF.

Target

Function	Molecular chaperone essential for the assembly of standard proteasomes and immunoproteasomes. Degraded after completion of proteasome maturation. Mediates the association of 20S preproteasome with the endoplasmic reticulum.
Tissue specificity	Strongly expressed from the basal layer to the granular layer of healthy epidermis, whereas in KLICK patients there is a gradual decrease of expression toward the granular layer.
Involvement in disease	Defects in POMP are the cause of keratosis linearis with ichthyosis congenita and sclerosing keratoderma (KLICK) [MIM:601952]. KLICK is a keratinizing disorder characterized by ichthyosis, palmoplantar keratoderma with constricting bands around fingers, flexural deformities of fingers and keratotic papules in a linear distribution on the flexural side of large joints. Histological examination of the skin of affected individuals shows hypertrophy and hyperplasia of the spinous, granular and horny epidermal layer.
Sequence similarities	Belongs to the POMP/UMP1 family.
Cellular localization	Cytoplasm > cytosol. Nucleus. Microsome membrane.

Images



Western blot - Anti-Proteasome maturation protein antibody [EPR10177] (ab170865)

All lanes : Anti-Proteasome maturation protein antibody [EPR10177] (ab170865) at 1/1000 dilution

Lane 1 : HeLa cell lysate

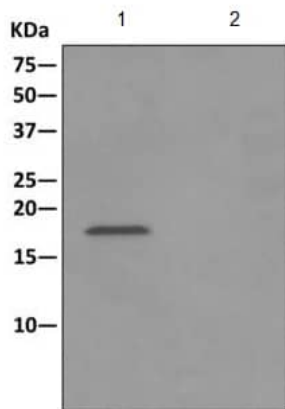
Lane 2 : SW480 cell lysate

Lane 3 : HL-60 cell lysate

Lane 4 : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

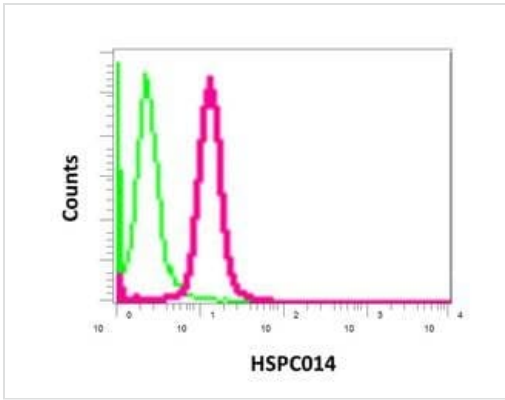
Predicted band size: 16 kDa



Immunoprecipitation - Anti-Proteasome maturation protein antibody [EPR10177] (ab170865)

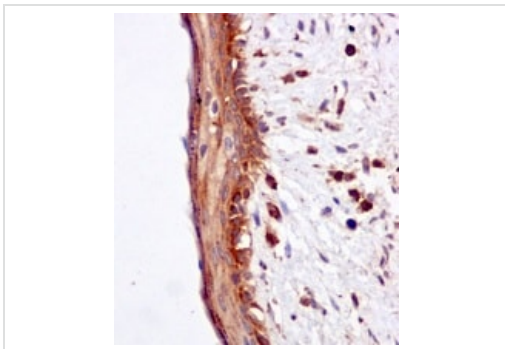
Detection of proteasome maturation protein by Western Blot of Immunoprecipitate.

HeLa cell lysate immunoprecipitated using ab170865 at 1/10 dilution (Lane 1) or 1X PBS (negative control) (Lane 2) and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.



Flow Cytometry (Intracellular) - Anti-Proteasome maturation protein antibody [EPR10177] (ab170865)

Intracellular flow cytometric analysis of permeabilized Jurkat cells labeling proteasome maturation protein with ab170865 at 1/100 dilution (red) or a rabbit IgG (negative) (green).




Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Proteasome maturation protein antibody [EPR10177] (ab170865)

Immunohistochemical analysis of Formalin-fixed, paraffin-embedded Human skin tissue labeling proteasome maturation protein with ab170865 at 1/50 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-Proteasome maturation protein antibody [EPR10177] (ab170865)

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

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