abcam

Product datasheet

Anti-PSMA7/HSPC antibody [EPR5837] ab109378

Recombinant RabMAb

3 Images

Overview

Product name	Anti-PSMA7/HSPC antibody [EPR5837]
Description	Rabbit monoclonal [EPR5837] to PSMA7/HSPC
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P **Unsuitable for:** Flow Cyt,ICC/IF or IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: MCF7, HeLa, HepG2 and A549 cell lysates IHC-P: Human kidney carcinoma tissue
General notes	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 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 -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5837

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab109378 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		1/10000 - 1/50000. Detects a band of approximately 27 kDa (predicted molecular weight: 28 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. Heat up to 98 °C, below boiling, and then let cool for 10-20 minutes.

Application notes Is unsuitable for Flow Cyt,ICC/IF or IP.

Target

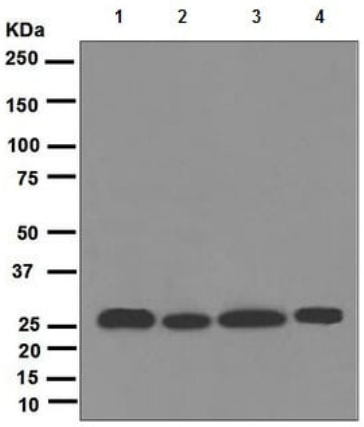
Function The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity. Plays an important role in the regulation of cell proliferation or cell cycle control, transcriptional regulation, immune and stress response, cell differentiation, and apoptosis. Interacts with some important proteins involved in transcription factor regulation, cell cycle transition, viral replication and even tumor initiation and progression. Inhibits the transactivation function of HIF-1A under both normoxic and hypoxia-mimicking conditions. The interaction with EMAP2 increases the proteasome-mediated HIF-1A degradation under the hypoxic conditions. Plays a role in hepatitis C virus internal ribosome entry site-mediated translation. Mediates nuclear translocation of the androgen receptor (AR) and thereby enhances androgen-mediated transactivation. Promotes MAVS degradation and thereby negatively regulates MAVS-mediated innate immune response.

Sequence similarities Belongs to the peptidase T1A family.

Post-translational modifications Phosphorylation by ABL1 or ABL2 leads to an inhibition of proteasomal activity and cell cycle transition blocks.

Cellular localization Cytoplasm. Nucleus.

Images



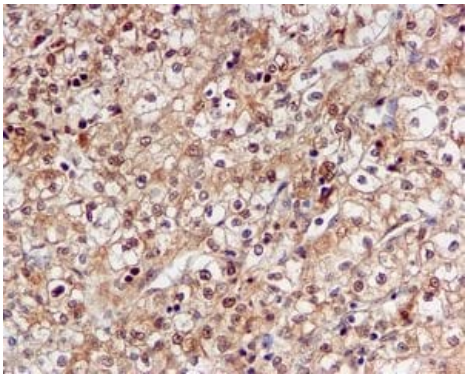
Western blot - Anti-PSMA7/HSPC antibody [EPR5837] (ab109378)

All lanes : Anti-PSMA7/HSPC antibody [EPR5837] (ab109378) at 1/10000 dilution

Lane 1 : MCF7 cell lysate
Lane 2 : HeLa cell lysate
Lane 3 : HepG2 cell lysate
Lane 4 : A549 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 28 kDa
Observed band size: 27 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PSMA7/HSPC antibody [EPR5837] (ab109378)

ab109378, at a 1/250 dilution, staining Proteasome 20S alpha 7 in paraffin embedded Human kidney carcinoma tissue by Immunohistochemistry.

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

Anti-PSMA7/HSPC antibody [EPR5837] (ab109378)

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