

Proteasome subunit beta type-2 Polyclonal Antibody

Catalog No: #42252

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Description

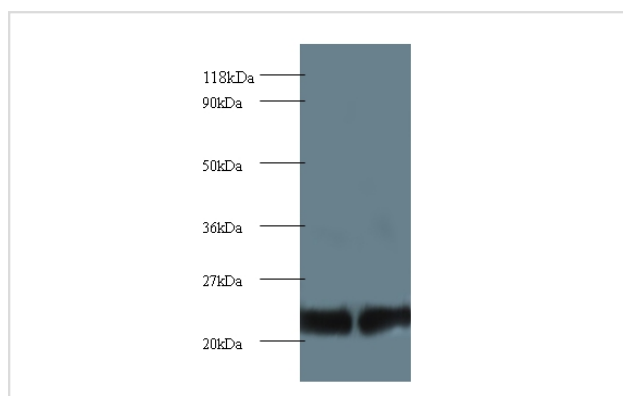
Product Name	Proteasome subunit beta type-2 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Applications	WB IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total Proteasome subunit beta type-2 polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human Proteasome subunit beta type-2 protein
Target Name	Proteasome subunit beta type-2
Other Names	Macropain subunit C7-I, Multicatalytic endopeptidase complex subunit C7-I, Proteasome component C7-I
Accession No.	Swiss-Prot#: P49721
Uniprot	P49721
GeneID	5690;
Calculated MW	22.9kd
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

Application Details

Western blotting: □ 1:500 - 1:1000

Immunohistochemistry: 1:20 - 1:200

Images



All lanes : proteasome subunit beta type-2 antibody at 2ug/ml

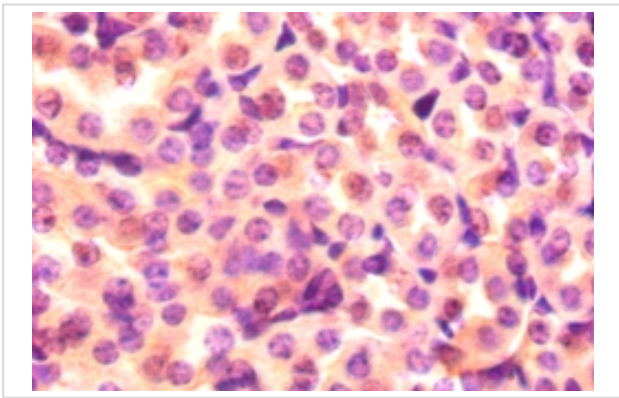
Lane 1 : EC109 whole cell lysate

Lane 2 : 293T whole cell lysate

Secondary Goat polyclonal to Rabbit IgG at 1/15000 dilution

Predicted band size : 22.9kDa

Observed band size : 22.9 kDa



Immunohistochemical analysis of paraffin-embedded mouse kidney using #42252 at dilution of 1:50.

Background

The proteasome is a multicatalytic proteinase complex with a highly ordered ring shaped 20S core structure. The core structure is composed of 4 rings of 28 non identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. PSMB2 is a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. The proteasome is a multicatalytic proteinase complex with a highly ordered ring shaped 20S core structure. The core structure is composed of 4 rings of 28 non identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin dependent process in a non lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the proteasome B type family, also known as the T1B family, that is a 20S core beta subunit. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

References

[1]"Sequence analyses and inter-species comparisons of three novel human proteasomal subunits, HsN3, HsC7-I and HsC10-II, confine potential proteolytic active-site residues." Nothwang H.G., Tamura T., Tanaka K., Ichihara A. Biochim. Biophys. Acta 1219:3

Note: This product is for in vitro research use only