

Product datasheet

Recombinant Human PIM1 protein ab140588

1 Image

Description

Product name	Recombinant Human PIM1 protein
Purity	> 90 % SDS-PAGE. ab140588 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<u>P11309-2</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHH SSGLVPRGSH MYQVGPLLGS GGFGSVYSGI RVSDNLPVAI KHVEKDRISD WGELPNGTRV PMEVVLLKKV SSGFSGVIRL LDWFERPDSF VLILERPEPV QDLDFITER GALQEELARS FFWQVLEAVR HCHNCGVLHR DIKDENILID LNRGELKLID FGSGALLKDT VYTDFDGTRV YSPPEWIRYH RYHGRSAAVW SLGILLYDMV CGDIPFEHDE EIIRGQVFFR QRVSSSECQHL IRWCLALRPS DRPTFEEIQN HPWM
Predicted molecular weight	31 kDa including tags
Amino acids	38 to 290
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab140588** in the following tested applications.

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

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.02% DTT, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.88% Sodium chloride

General Info

Function

May affect the structure or silencing of chromatin by phosphorylating HP1 gamma/CBX3. Isoform 2 promotes the G1/S transition of the cell cycle via up-regulation of CDK2 activity and phosphorylation of CDKN1B, resulting in enhanced nuclear export and proteasome-dependent degradation of CDKN1B. Isoform 2 also represses CDKN1B transcription by phosphorylating and inactivating the transcription factor FOXO3. Plays a role in signal transduction in blood cells. Contributes to both cell proliferation and survival and thus provides a selective advantage in tumorigenesis.

Tissue specificity

Expressed primarily in cells of the hematopoietic and germline lineages. Isoform 1 and isoform 2 are both expressed in prostate cancer cell lines.

Sequence similarities

Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. PIM subfamily. Contains 1 protein kinase domain.

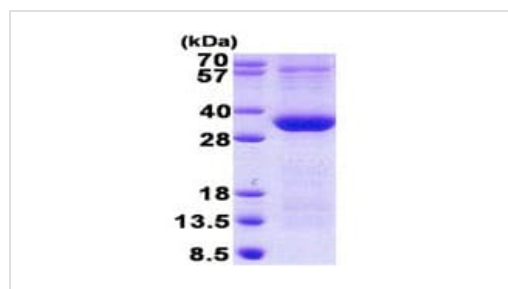
Post-translational modifications

Autophosphorylated on both serine/threonine and tyrosine residues.

Cellular localization

Cytoplasm. Nucleus and Cell membrane.

Images



15% SDS-PAGE analysis of ab140588 (3µg).

SDS-PAGE - Recombinant Human PIM1 protein
(ab140588)

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

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