abcam

Product datasheet

Anti-PIM2 antibody [CHU61B] ab107102

1 References 1 Image

Overview

Product name	Anti-PIM2 antibody [CHU61B]
Description	Rat monoclonal [CHU61B] to PIM2
Host species	Rat
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant full length protein corresponding to PIM2.
Positive control	Human seminoma.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.4 Preservative: 0.05% Sodium azide Constituents: PBS, 1% BSA
Purity	IgG fraction
Clonality	Monoclonal
Clone number	CHU61B
Isotype	IgG2a

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab107102 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
IHC-P		1/2.

Target

Function

Promotes cell survival in response to a variety of proliferative signals via positive regulation of the I-kappaB kinase/NF-kappaB cascade; this process requires phosphorylation of MAP3K8/COT. Prevents apoptosis induced by growth factor withdrawal via inhibition of caspase-3 activation, and via phosphorylation of pro-apoptotic proteins. Inhibits BAD-induced cell death via phosphorylation of BAD. PIM2-mediated cell survival is glucose-dependent but independent of several AKT regulators such as PI3K, HSP-90 and TOR, indicating that PIM2 and PI3K/AKT/TOR function via distinct pathways. Involved in the positive regulation of chondrocyte survival and autophagy in the epiphyseal growth plate.

Tissue specificity

Highly expressed in hematopoietic tissues, in leukemic and lymphoma cell lines, testis, small intestine, colon and colorectal adenocarcinoma cells. Weakly expressed in normal liver, but highly expressed in hepatocellular carcinoma tissues.

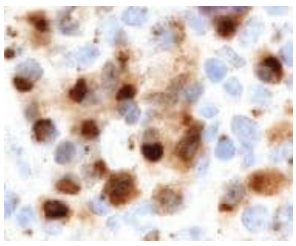
Sequence similarities

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

Post-translational modifications

Autophosphorylated.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PIM2 antibody [CHU61B] (ab107102)

ab107102, at 1/2 dilution, staining PIM2 in Human seminoma by Immunohistochemistry.

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