abcam

Product datasheet

Anti-PIM2 antibody [EPR6987] - BSA and Azide free ab240951

Recombinant RabMAb

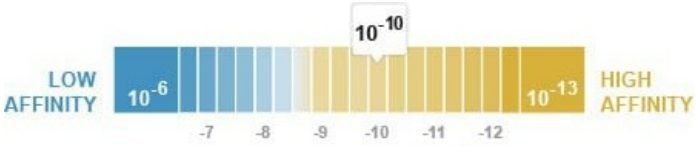
3 Images

Overview

Product name	Anti-PIM2 antibody [EPR6987] - BSA and Azide free
Description	Rabbit monoclonal [EPR6987] to PIM2 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IP, WB **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IP: K-562 cell lysate
General notes	ab240951 is the carrier-free version of **ab129057**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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 +4°C. Do Not Freeze.
Dissociation constant (K_D)	$K_D = 2.88 \times 10^{-10}$ M



Learn more about K_D

Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6987
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab240951 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
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 34-40 kDa (predicted molecular weight: 34 kDa).

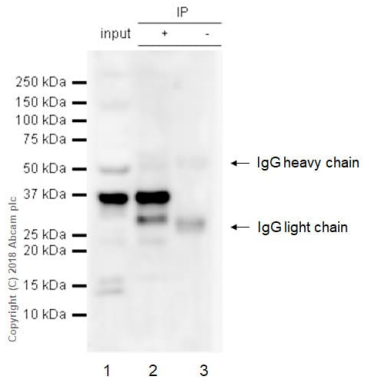
Application notes Is unsuitable for IHC-P.

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.

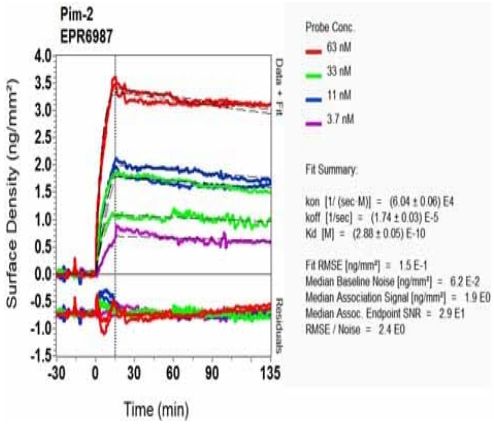
	Contains 1 protein kinase domain.
Post-translational modifications	Autophosphorylated.

Images



Immunoprecipitation - Anti-PIM2 antibody [EPR6987] - BSA and Azide free (ab240951)

ab129057 (purified) at 1:100 dilution (2µg) immunoprecipitating PIM2 in K-562 whole cell lysate.
Lane 1 (input): K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate 10µg
Lane 2 (+): **ab129057** & K-562 whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab129057** in K-562 whole cell lysate
For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.
Blocking and diluting buffer: 5% NFDM/TBST.

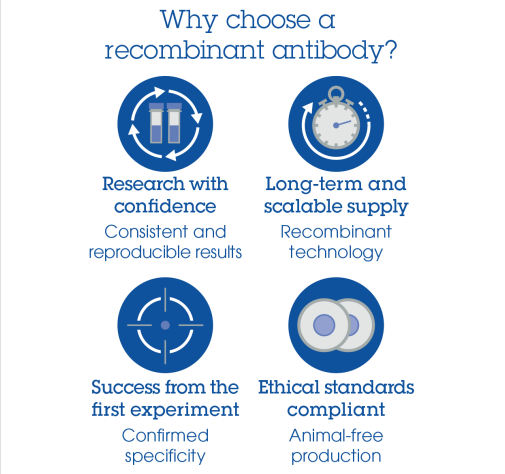


OI-RD Scanning - Anti-PIM2 antibody [EPR6987] - BSA and Azide free (ab240951)

Equilibrium disassociation constant (K_D)
Learn more about K_D

Click here to learn more about K_D

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab129057**).



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(ab240951)

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