

Product datasheet

Anti-PIAS3 antibody [PIA3] ab59547

Overview

Product name	Anti-PIAS3 antibody [PIA3]
Description	Mouse monoclonal [PIA3] to PIAS3
Host species	Mouse
Specificity	This antibody recognized PIAS3.
Tested applications	Suitable for: ELISA, ICC, WB
Species reactivity	Reacts with: Mouse, Chicken, Cow, Dog, Human
Immunogen	Synthetic peptide: GGALREGHGGLPS , corresponding to amino acids 591-604 of Human PIAS3 Run BLAST with Run BLAST with
Positive control	HepG2 total cell extract.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 15mM Sodium Azide Constituents: 0.01M PBS, pH 7.4
Purity	IgG fraction
Purification notes	Purified immunoglobulin.
Clonality	Monoclonal
Clone number	PIA3
Myeloma	NS1
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab59547** 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
ELISA		
ICC		
WB		
Application notes	<p>ELISA: Use at an assay dependent dilution.</p> <p>ICC: Use at an assay dependent dilution.</p> <p>WB: Use at a concentration of 2 - 4 µg/ml. Detects a band of approximately 68 and additional band at 44 kDa may be present (predicted molecular weight: 67 kDa).</p> <p>Not yet tested in other applications.</p> <p>Optimal dilutions/concentrations should be determined by the end user.</p>	
Target		
Function	<p>Functions as an E3-type small ubiquitin-like modifier (SUMO) ligase, stabilizing the interaction between UBE2I and the substrate, and as a SUMO-tethering factor. Plays a crucial role as a transcriptional coregulation in various cellular pathways, including the STAT pathway and the steroid hormone signaling pathway. Involved in regulating STAT3 signaling via inhibiting STAT3 DNA-binding and suppressing cell growth. Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation (PubMed:21965678, PubMed:9388184). Sumoylates CCAR2 which promotes its interaction with SIRT1 (PubMed:25406032). Diminishes the sumoylation of ZFH3 by preventing the colocalization of ZFH3 with SUMO1 in the nucleus (PubMed:24651376).</p>	
Tissue specificity	Widely expressed.	
Pathway	Protein modification; protein sumoylation.	
Sequence similarities	<p>Belongs to the PIAS family.</p> <p>Contains 1 PINIT domain.</p> <p>Contains 1 SAP domain.</p> <p>Contains 1 SP-RING-type zinc finger.</p>	
Domain	<p>The PINIT domain of PIAS3 is required for STAT3-PIAS3 interaction and for translocation to the nucleus.</p> <p>The LXXLL motif is a transcriptional coregulator signature.</p>	
Post-translational modifications	Sumoylated.	
Cellular localization	Cytoplasm. Nucleus. Nucleus speckle. Colocalizes with MITF in the nucleus. Colocalizes with GFI1 in nuclear dots. Colocalizes with SUMO1 in nuclear granules.	

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