

ARG59266 anti-PIAS3 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PIAS3
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow, Dog, Gpig, Hrs, Pig
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PIAS3
Species	Human
Immunogen	Synthetic peptide around the C-terminal region of Human PIAS3. (within the following region: TSLDEQDALGHFFQYRGTPSHFLGPLAPTLGSSHCSATPAPPPGRVSSIV)
Conjugation	Un-conjugated
Alternate Names	Protein inhibitor of activated STAT protein 3; E3 SUMO-protein ligase PIAS3; EC 6.3.2.-; ZMIZ5

Application Instructions

Predict Reactivity Note	Predicted Homology Based On Immunogen Sequence: Cow: 100%; Dog: 100%; Guinea Pig: 93%; Horse: 100%; Mouse: 93%; Pig: 100%; Rat: 100%						
Application table	<table><thead><tr><th>Application</th><th>Dilution</th></tr></thead><tbody><tr><td>ICC/IF</td><td>Assay-dependent</td></tr><tr><td>WB</td><td>1 - 2 µg/ml</td></tr></tbody></table>	Application	Dilution	ICC/IF	Assay-dependent	WB	1 - 2 µg/ml
Application	Dilution						
ICC/IF	Assay-dependent						
WB	1 - 2 µg/ml						
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.						
Positive Control	HepG2						
Observed Size	~ 65 kDa						

Properties

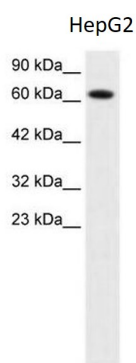
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.09% (w/v) Sodium azide and 2% Sucrose.
Preservative	0.09% (w/v) Sodium azide
Stabilizer	2% Sucrose

Concentration	Batch dependent: 0.5 - 1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	PIAS3
Gene Full Name	protein inhibitor of activated STAT, 3
Background	This gene encodes a member of the PIAS [protein inhibitor of activated STAT (signal transducer and activator of transcription)] family of transcriptional modulators. The protein functions as a SUMO (small ubiquitin-like modifier)-E3 ligase which catalyzes the covalent attachment of a SUMO protein to specific target substrates. It directly binds to several transcription factors and either blocks or enhances their activity. Alternatively spliced transcript variants of this gene have been identified, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jul 2008]
Function	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. Sumoylates CCAR2 which promotes its interaction with SIRT1. [UniProt]
Calculated Mw	68 kDa
PTM	Sumoylated. [UniProt]
Cellular Localization	Cytoplasm. Nucleus. Nucleus speckle. Note=Colocalizes with MITF in the nucleus. Colocalizes with GF11 in nuclear dots. Colocalizes with SUMO1 in nuclear granules. [UniProt]

Images



ARG59266 anti-PIAS3 antibody WB image

Western blot: HepG2 cell lysate stained with ARG59266 anti-PIAS3 antibody at 1 - 2 µg/ml dilution.