

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PIAS3 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PIAS3 Met10-Asp628 Accession # Q9Y6X2
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

PIAS3 (protein inhibitor of activated STAT protein 3) is a 65-75 kDa member of the PIAS family of proteins. It is a ubiquitously expressed nuclear E3-type SUMO ligase that binds to, and inhibits, the gene activating activity of STAT3, MITF and the progesterone receptor. Human PIAS3 is 628 amino acids (aa) in length and contains a SAP domain (aa 11-45) with an embedded transcriptional coregulator LxxLL motif, a STAT3 binding site (aa 82-132), a PINIT motif required for nuclear retention (aa 241-245), an SP-RING-type zinc finger domain (aa 303-380) and a SUMO1-binding region (aa 450-460). There is an alternate start site at Met10. Human PIAS3 is 97% aa identical to mouse and canine PIAS3 over both aa 1-628 and 10-628.

PRODUCT SPECIFIC NOTICES

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