

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PIAS2 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PIAS2 Met1-Gly550 Accession # O75928
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

PIAS2 (Protein inhibitor of activated STAT2; also DIP, MIZ1 and PIASx-β) is a 45-70 kDa member of the PIAS family of molecules. In primary cells and tissues it is expressed in T and NK cells, and in testis where it likely regulates spermatogenesis. However, it is widely expressed in cultured cell lines. PIAS2 is known to inhibit STAT4-mediated gene activation, and to interact with inactive ELK-1, promoting its activation via HDAC2 dissociation and desumoylation. Human PIAS2 is 621 amino acids (aa) in length. It contains a SAP domain (aa 11-45), a zinc-finger region (aa 331-408), a SUMO-binding motif (aa 467-472) and an NLS (aa 484-492). There are multiple splice variants. PIAS2x-β/ARIP3 shows a 22 aa substitution for aa 551-621, while PIAS-NY shows a 12 aa substitution for aa 1-8, followed by a truncation after Gly401. Two others show a four aa substitution for aa 504-621, and an alternate start site at Met10. Over aa 1-550, human PIAS2 shares 98% aa identity with mouse PIAS2.

PRODUCT SPECIFIC NOTICES

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