

DESCRIPTION

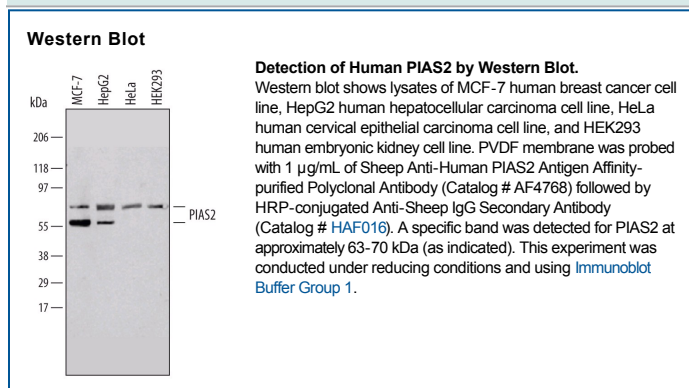
Species Reactivity	Human
Specificity	Detects human PIAS2 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PIAS2 Met1-Gly550 Accession # O75928
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.