

Human PIAS3 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5120

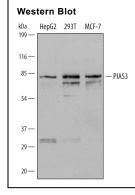
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human PIAS3 in Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human PIAS3 Met10-Asp628 Accession # Q9Y6X2	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

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	2 μg/mL	See Below

DATA



Detection of Human PIAS3 by Western Blot.

Western blot shows nuclear extracts of HepG2 human hepatocellular carcinoma cell line, HEK293 human embryonic kidney cell line, and MCF-7 human breast cancer cell line. PVDF membrane was probed with 2 µg/mL of Goat Anti-Human PIAS3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5120) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for PIAS3 at approximately 65-75 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 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

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.

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