

#### DESCRIPTION

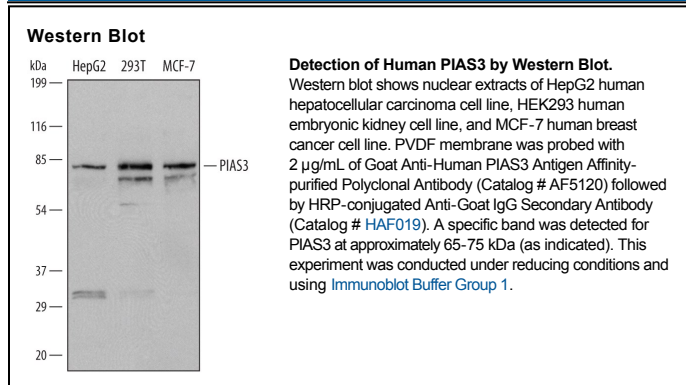
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human PIAS3 in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human PIAS3 Met10-Asp628 Accession # Q9Y6X2
<b>Formulation</b>	Lyophilized from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

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	2 µg/mL	See Below

#### DATA



#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

#### 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.