

DESCRIPTION

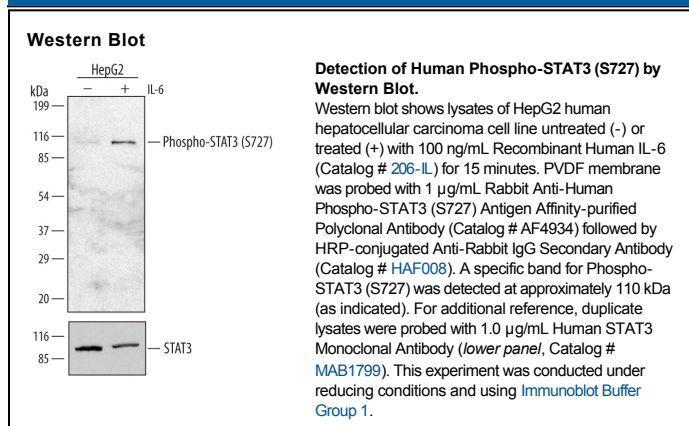
Species Reactivity	Human
Specificity	Detects human STAT3 when phosphorylated at S727 in Western blots.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Phosphopeptide containing human STAT3 S727 site Accession # P40763
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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	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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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

PI16 (Peptidase Inhibitor 16) is a variable molecular weight (MW) member of the CRISP family of proteins. It is expressed by cardiomyocytes and serves as an autocrine negative growth regulator. Mature mouse PI16 is a type I transmembrane protein 469 amino acids (aa) in length. The extracellular region includes all but the C-terminal 21 amino acids. A soluble form of PI16 is known. Although its predicted MW is 50 kDa, it runs anomalously at 70 kDa (unmodified) in SDS-PAGE. With glycosylation, it appears to be 100-110 kDa in size. Three potential variants exist. One shows a deletion of aa 51-124, a second shows a 9 aa extension at the N-terminus, and a third shows a deletion of aa 191-452. Over aa 1-464, mouse PI16 shares 86% and 61% aa identity with rat and human PI16, respectively.