

Human Phospho-STAT3 (S727) Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG Catalog Number: AF4934

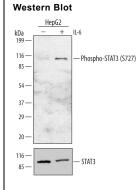
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human STAT3 when phosphorylated at S727 in Western blots.		
Source	Polyclonal Rabbit IgG		
Purification	Antigen Affinity-purified		
Immunogen	Phosphopeptide containing human STAT3 S727 site Accession # P40763		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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	1 μg/mL	See Below

DATA



Detection of Human Phospho-STAT3 (S727) by Western Blot.

Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line untreated (-) or treated (+) with 100 ng/mL Recombinant Human IL-6 (Catalog # 206-IL) for 15 minutes. PVDF membrane was probed with 1 µg/mL Rabbit Anti-Human Phospho-STAT3 (S727) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4934) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band for Phospho-STAT3 (S727) was detected at approximately 110 kDa (as indicated). For additional reference, duplicate lysates were probed with 1.0 µg/mL Human STAT3 Monoclonal Antibody (lower panel, Catalog # MAB1799). 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

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 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.

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