

**DATASHEET**
**STAT3 (Phospho-S727) Rabbit Polyclonal Antibody**
**CAT. NO. APA07593**
**KEY FEATURES**

Target	STAT3 (Phospho-S727)	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine, Chicken, Dog, Monkey, Pig	Clonality	Polyclonal
Applications	WB, IHC, IF/ICC, IP	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

**BACKGROUND**

Signal transducer and transcription activator that mediates cellular responses to interleukins, KITLG/SCF, LEP and other growth factors . Once activated, recruits coactivators, such as NCOA1 or MED1, to the promoter region of the target gene . May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4 . Upon activation of IL6ST/gp130 signaling by interleukin-6 (IL6), binds to the IL6-responsive elements identified in the promoters of various acute-phase protein genes . Activated by IL31 through IL31RA .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:100
IF/ICC	1:50 - 1:200
IP	1:10 - 1:100

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to STAT3 (Phospho-S727)
Specificity	Recognizes endogenous levels of STAT3 protein only when phosphorylated at S727.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S727 of human STAT3 protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 88 kD; Observed: 86 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	APRF; Signal transducer and activator of transcription 3; Acute-phase response factor
Gene Symbol	STAT3
Entrez Gene	6774(Human); 20848(Mouse); 25125(Rat)
SwissProt	P40763(Human); P42227(Mouse); P52631(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

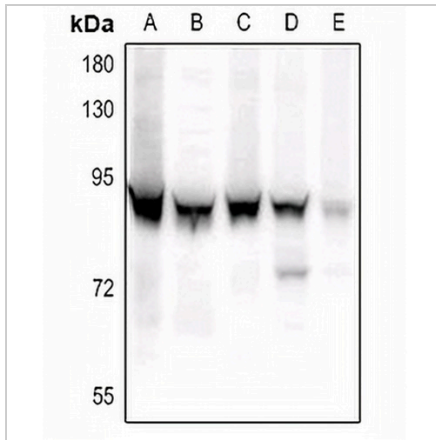
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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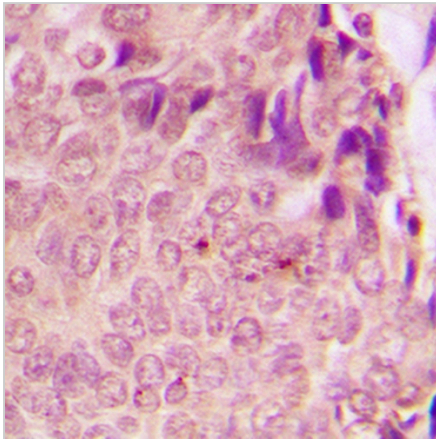
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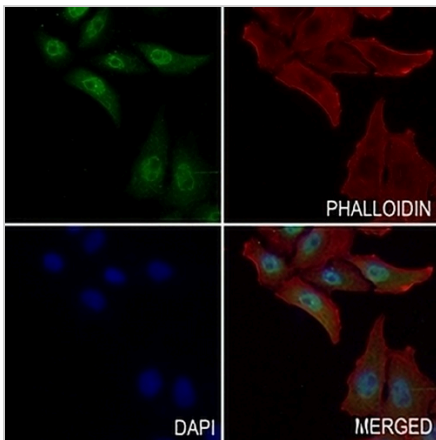
**DATA**



Western blot analysis of STAT3 (Phospho-S727) expression in HepG2 (A), A549 (B), LO2 (C), PC12 (D), 3T3L1 (E) whole cell lysates. (Predicted band size: 88 kD; Observed band size: 86 kD)



Immunohistochemical analysis of STAT3 (Phospho-S727) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of STAT3 (Phospho-S727) staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AREX® Fluor 488 - conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX® Fluor 594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.