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Anti-STAT3 (phospho Tyr705) Rabbit pAb (A72199)

Catalog No.: A72199

Basic Information

Catalog No. (Cat.No.)	A72199
Host species	Rabbit
Reactivity	Human,Mouse,Rat,Pig
Applications	WB,IHC,IP,IF,ELISA
Synonyms	STAT3 (phospho Tyr705),p-STAT3(Tyr705),STAT3,APRF,Signal transducer and activator of transcription 3,Acute-phase response factor

Product Information

Target	STAT3 (phospho Tyr705)
Molecular Weight(Calculated)	88 kDa
Molecular Weight(Observed)	88 kDa
Isotype	IgG
Conjugation	NA
Concentration	1 mg/ml
Clonality	Polyclonal
Clone No.	NA
RRID	NA
Storage buffer	50% Glycerol, 0.5% BSA and 0.02% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:500-1:2000
IHC	1:100-1:300
IP	2-5 μg/mg lysate
IF	1:50-1:200
ELISA	1:20000

Target Information

Protein Name	STAT3 (phospho Tyr705)
Gene Name	*STAT3*
Domain	human STAT3,around phosphorylation site of Tyr705, aa 672-721
Background	STAT3 Tyr705 is the major JAK-catalysed tyrosine-phosphorylation site and canonical activation marker of STAT3. Upon stimulation by interleukins, growth factors or cytokines, JAK-mediated Tyr705 phosphorylation triggers STAT3 homodimerization, nuclear translocation and target-gene binding to drive transcription of genes governing proliferation, anti-apoptosis, EMT, inflammation and stem-cell features. Tyr705 phosphorylation is prerequisite for STAT3 nuclear import and transcriptional activity. Constitutive Tyr705 phosphorylation represents a common oncogenic driver across multiple malignancies.