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Anti-STAT3 (phospho Tyr705) Rabbit mAb [02B69]

Catalog No.: A52319

Basic Information

Catalog No. (Cat.No.)	A52319
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,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	02B69
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% 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	1:2000-1:10000
IHC	1:200-1:1000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	STAT3 (phospho Tyr705)
Gene Name	*STAT3*
Domain	NA
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.