Immunotag™ Phospho-STAT2 (Tyr690) Antibody

Antibody Specification

Catalog No.	ITA1111
Product Description	Immunotag™ Phospho-STAT2 (Tyr690) Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	Phospho-STAT2 (Tyr690)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,IF/ICC,ELISA
Recommended Dilution	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human STAT2 around the phosphorylation site of Tyrosine 690
Specificity	Phospho-STAT2 (Tyr690) Antibody detects endogenous levels of STAT2 only when phosphorylated at Tyrosine 690
Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	STAT2
Accession No.	P52630

Antibody Specification

Alternate Names	Homo sapiens interferon alpha induced transcriptional activator; interferon alpha induced transcriptional activator; ISGF 3; ISGF3; MGC59816; P113; signal transducer and activator of transcription 2 113kD; Signal transducer and activator of transcription 2; STAT113; Stat2; STAT2_HUMAN;
Description	Signal transducer and activator of transcription that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with IRF9/ISGF3G to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state (PubMed:9020188, PubMed:23391734). Acts as a regulator of mitochondrial fission by modulating the phosphorylation of DNM1L at 'Ser-616' and 'Ser-637' which activate and inactivate the GTPase activity of DNM1L respectively (PubMed:26122121).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	113kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.