



# Rabbit Anti-Human STAT1 monoclonal antibody, clone TE31-86 (CABT-L777)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Target</b>	STAT1 alpha
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Clone</b>	TE31-86
<b>Purification</b>	Protein A purified.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ICC/IF, IHC, IP, FC
<b>Molecular Weight</b>	87 kDa
<b>Cellular Localization</b>	Cytoplasm, Nucleus.
<b>Positive Control</b>	SKOV-3, MCF-7, Hela, 293, human cervix uteri tissue.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
<b>Preservative</b>	0.05% Sodium Azide

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<b>Storage</b>	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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## BACKGROUND

<b>Introduction</b>	Membrane receptor signaling by various ligands, including interferons and growth hormones such as EGF, induces activation of JAK kinases which then leads to tyrosine phosphorylation of the various Stat transcription factors. Stat1 and Stat2 are induced by IFN- $\alpha$ and form a heterodimer which is part of the ISGF3 transcription factor complex. Although early reports indicate Stat3 activation by EGF and IL-6, it has been shown that Stat3 $\beta$ appears to be activated by both while Stat3 $\alpha$ is activated by EGF, but not by IL-6. Highest expression of Stat4 is seen in testis and myeloid cells. IL-12 has been identified as an activator of Stat4. Stat5 has been shown to be activated by Prolactin and by IL-3. Stat6 is involved in IL-4 activated signaling pathways.
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<b>Keywords</b>	CANDF7;DKFZp686B04100;ISGF3;OTTHUMP00000163552;OTTHUMP00000165046;OTTHUMP00000165047;OTTHUMP000002059;transducer and activator of transcription 1;Signal transducer and activator of transcription 1, 91kDa;Signal transducer and activator of transcription 1-alpha/beta;Stat1;STAT1_HUMAN;STAT91;Transcription factor ISGF-3 components p91/p84 antibody
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## GENE INFORMATION

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Entrez Gene ID	<a href="#">6772</a>
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UniProt ID	<a href="#">P42224</a>
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