

Recombinant Human TYK2

Cat. No. TYK2-31641TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human TYK2 with a proprietary tag: predicted molecular weight 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	This gene encodes a member of the tyrosine kinase and, more specifically, the Janus kinases (JAKs) protein families. This protein associates with the cytoplasmic domain of type I and type II cytokine receptors and promulgate cytokine signals by phosphorylating receptor subunits. It is also component of both the type I and type III interferon signaling pathways. As such, it may play a role in anti-viral immunity. A mutation in this gene has been associated with hyperimmunoglobulin E syndrome (HIES) - a primary immunodeficiency characterized by elevated serum immunoglobulin E.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Observed in all cell lines analyzed. Expressed in a variety of lymphoid and non-lymphoid cell lines.
Biological activity	useful for Antibody Production and Protein Array

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PVCHLRLLAQAEGEPCYIRD SGVAPTDPGPESAAGPPTHEVLVTGTGGIQWWPVEE EVNKEEGSSGSSGRNPQASLFGKKAKAHKAVGQPADRPREPLWA
Sequence Similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily.Contains 1 FERM domain.Contains 1 protein kinase domain.Contains 1 SH2 domain.

GENE INFORMATION

Gene Name	TYK2 tyrosine kinase 2 [Homo sapiens]
Official Symbol	TYK2
Synonyms	TYK2; tyrosine kinase 2; non-receptor tyrosine-protein kinase TYK2; JTK1;
Gene ID	7297
mRNA Refseq	NM_003331
Protein Refseq	NP_003322
MIM	176941

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Uniprot ID	P29597
Chromosome Location	19p13.2
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; Hepatitis C, organism-specific biosystem; Hepatitis C, conserved biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem;
Function	ATP binding; growth hormone receptor binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein tyrosine kinase activity;

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