

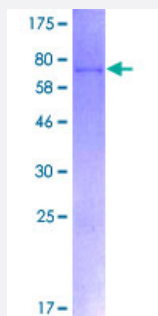
Full-Length

FOXP3 (Human) Recombinant Protein (P02)

Catalog # H00050943-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human FOXP3 full-length ORF (NP_054728.2, 1 a.a. - 431 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MPNPRPGKPSAPSLALGPSPGASPSWRAAPKASDLLGARGPGGTFQGRDLRGGAHASSSSLN
PMPPSQLQLPTLPLVMVAPSGARLGPLHLQALLQDRPHFMHQLSTVDAHARTPVLQVHPLESP
AMISLTPPTTATGVFSLKARPLPPGINVASLEWVSREPALLCTFPNPSAPRKDSTLSAVPQSSYP
LLANGVCKWPGCEKVFEEDFLKHCQADHLLDEKGRAQCQLQREMVQSLEQQLVLEKEKLSA
MQAHLAKMALTAKSSVASSDKGSCCVAAGSQGPVVPAAWSGPREAPDSLFAVRRHLWGSHG
NSTFPEFLHNMDYFKFHNMRPPFTYATLIRWAILEAPEKQRTLNEIYHWFTRMF AFFRNHPATWKN
AIRHNLSLHKCFVRVESEKGAVWTVDELEFRKKRSQRPSRCSNPTPGP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

73.6

Interspecies Antigen Sequence

Mouse (86); Rat (86)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — FOXP3

Entrez GeneID	50943
GeneBank Accession#	NM_014009.2
Protein Accession#	NP_054728.2
Gene Name	FOXP3
Gene Alias	AIID, DIETER, IPEX, JM2, MGC141961, MGC141963, PIDX, XPID
Gene Description	forkhead box P3
Omim ID	222100 300292 304790
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the forkhead/winged-helix family of transcriptional regulators. Defects in this gene are the cause of immunodeficiency polyendocrinopathy, enteropathy, X-linked syndrome (IPEX), also known as X-linked autoimmunity-immunodeficiency syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq]
Other Designations	OTTHUMP00000025832 immune dysregulation, polyendocrinopathy, enteropathy, X-linked immunodeficiency, polyendocrinopathy, enteropathy, X-linked scurfin

Publication Reference

- [The ENTPD1 promoter polymorphism -860 A > G \(rs3814159\) is associated with increased gene transcription, protein expression, CD39/NTPDase1 enzymatic activity, and thromboembolism risk.](#)

Maloney JP, Branchford BR, Brodsky GL, Cosmic MS, Calabrese DW, Aquilante CL, Maloney KW, Gonzalez JR, Zhang W, Moreau KL, Wiggins KL, Smith NL, Broeckel U, Di Paola J.

FASEB Journal 2017 Jul; 31(7):2771.

Application: Func, Human, Human iliac vein endothelial cell

- [FOXP3 controls an miR-146/NFκB negative feedback loop that inhibits apoptosis in breast cancer cells.](#)

Liu R, Liu C, Chen D, Yang WH, Liu X, Liu CG, Dugas CM, Tang F, Zheng P, Liu Y, Wang L.

Cancer Research 2015 Apr; 75(8):1703.

Application: EMSA, WB-Re, Human, FOXP3-Tet-off MCF7, MCF10A cells

Disease

- [Acute Disease](#)
- [Addison Disease](#)
- [Arthritis](#)
- [Asthma](#)
- [Autoimmune Diseases](#)
- [Autoimmune polyglandular syndrome](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Celiac Disease](#)
- [Diabetes Mellitus](#)
- [Egg Hypersensitivity](#)
- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)

- [Hashimoto Disease](#)
- [Hemophilia A](#)
- [Hypersensitivity](#)
- [Infant](#)
- [Leukemia](#)
- [Lupus Erythematosus](#)
- [Psoriasis](#)
- [Respiratory Syncytial Virus Infections](#)
- [Rhinitis](#)
- [Sarcoidosis](#)
- [Thyroiditis](#)