Forkhead Box P3 (FOXP3) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Forkhead Box P3 (FOXP3), Monoclonal Antibody
Full Product Name	Monoclonal Antibody to Forkhead Box P3 (FOXP3)
Product Gene Name	anti-FOXP3 antibody
Product Synonym Names	FOXP3/Forkhead Box P3; FOXP3; AIID; DIETER; IPEX; JM2; PIDX; XPID; SCURFIN; Forkhead Box Protein P3; Immune Dysregulation, Polyendocrinopathy, Enteropathy, XLinked
Clonality	Monoclonal
Isotype	IgG1 Kappa
Clone Number	D1
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin300, 50% glycerol.
Purity/Purification	Protein A + Protein G affinity chromatography
Concentration	1mg/mL (lot specific)
Specificity	The antibody is a mouse monoclonal antibody raised against FOXP3. It has been selected for its ability to recognize FOXP3 in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, 20 degree C for 24 months The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: FOXP3 Clone #D1 (MBS2139043) APC-CY7 Conjugated Antibody: FOXP3 Clone #D1 (MBS2134139)
Matching Pairs	Unconjugated Antibody: FOXP3 Clone #D1 (MBS2139043) PE Conjugated Antibody: FOXP3 Clone #D1 (MBS2134140)
Matching Pairs	Unconjugated Antibody: FOXP3 Clone #D1 (MBS2139043) APC Conjugated Antibody: FOXP3 Clone #D1 (MBS2134141)
Matching Pairs	Unconjugated Antibody: FOXP3 Clone #D1 (MBS2139043) Cy3 Conjugated Antibody: FOXP3 Clone #D1 (MBS2134142)
Matching Pairs	Unconjugated Antibody: FOXP3 Clone #D1 (MBS2139043) Biotin Conjugated Antibody: FOXP3 Clone #D1 (MBS2134143)
Matching Pairs	Unconjugated Antibody: FOXP3 Clone #D1 (MBS2139043) FITC Conjugated Antibody: FOXP3 Clone #D1 (MBS2134144)
Matching Pairs	Unconjugated Antibody: FOXP3 Clone #D1 (MBS2139043) HRP Conjugated Antibody: FOXP3 Clone #D1 (MBS2134145)
Molecular Weight	47,244 Da
Chromosome Location	Chromosome: X; NC_000023.10 (49106897..49121288, complement). Location: Xp11.23
OMIM	300292

3D Structure	ModBase 3D Structure for Q9BZS1
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen Type	Prokaryotic Recombinant proteins/RP
Sequence of Immunogen	Tyr191~Glu412
Conjugation	Unconjugated
Product Categories/Family for anti-FOXP3 antibody	Signal transduction; Apoptosis; Tumor immunity; Infection immunity; Immune molecule; Primary
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-FOXP3 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-FOXP3 antibody	WB: 0.52ug/mL IHC: 520ug/mL ICC: 520ug/mL
Related Product Information for anti-FOXP3 antibody	MBS2139043 is an antibody targeting FOXP3. Also known as Monoclonal Antibody to Forkhead Box P3 (FOXP3). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-FOXP3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOXP3. It may not necessarily be applicable to this product.

NCBI GI #	167466190
NCBI GeneID	50943
NCBI Accession #	NP_001107849.1
UniProt Primary Accession #	Q9BZS1
UniProt Secondary Accession #	O60827; Q14DD8; Q4ZH51; A5HJT1; B7ZLG0
UniProt Related Accession #	Q9BZS1
GenBank Nucleotide #	NM_001114377.1
NCBI Official Full Name	forkhead box protein P3 isoform b
NCBI Official Synonym Full Names	forkhead box P3
NCBI Official Symbol	FOXP3
NCBI Official Synonym Symbols	JM2; AIID; IPEX; PIDX; XPID; DIETER
UniProt Protein Name	Forkhead box protein P3
UniProt Synonym Protein Names	Scurfin
Protein Family	Forkhead box protein
UniProt Gene Name	FOXP3
UniProt Synonym Gene Names	IPEX
UniProt Entry Name	FOXP3_HUMAN
NCBI Protein Information	forkhead box protein P3; scurfin; FOXP3delta7; immunodeficiency, polyendocrinopathy, enteropathy, X-linked; immune dysregulation, polyendocrinopathy, enteropathy, X-linked

NCBI Summary for FOXP3	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, Jul 2008]
UniProt Comments for FOXP3	FOXP3: Probable transcription factor. Plays a critical role in the control of immune response. Interacts with IKZF3. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; C2H2-type zinc finger protein; Cell cycle regulation; DNA-binding Chromosomal Location of Human Ortholog: Xp11.23 Cellular Component: protein complex; cytoplasm; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; histone acetyltransferase binding; NF-kappaB binding; protein binding; NFAT protein binding; protein homodimerization activity; sequence-specific DNA binding; histone deacetylase binding; metal ion binding; transcription corepressor activity; transcription factor activity Biological Process: negative regulation of interleukin-10 production; positive regulation of transcription, DNA-dependent; negative regulation of cytokine secretion; myeloid cell homeostasis; T cell receptor signaling pathway; negative regulation of interleukin-2 production; negative regulation of interleukin-6 production; T cell homeostasis; tolerance induction to self antigen; response to virus; negative regulation of transcription factor activity; negative regulation of immune response; cytokine production; negative regulation of T cell cytokine production; positive regulation of peripheral T cell tolerance induction; inhibition of NF-kappaB transcription factor; regulation of T cell anergy; negative regulation of interleukin-5 production; positive regulation of transcription from RNA polymerase II promoter; inhibition of CREB transcription factor; negative regulation of transcription, DNA-dependent; negative regulation of cytokine biosynthetic process; transcription from RNA polymerase II promoter; negative regulation of interleukin-4 production; T cell activation; negative regulation of activated T cell proliferation; negative regulation of transcription from RNA polymerase II promoter; negative regulation of histone acetylation; negative regulation of interferon-gamma biosynthetic process; positive regulation of interleukin-4 production; negative regulation of cell proliferation; CD4-positive, CD25-positive, alpha-beta regulatory T cell lineage commitment; negative regulation of isotype switching to IgE isotypes; negative regulation of T cell proliferation; B cell homeostasis; regulation of transcription, DNA-dependent; negative regulation of interferon-gamma production; regulation of isotype switching to IgG isotypes; positive regulation of T cell anergy; positive regulation of transforming growth factor-beta1 production; negative regulation of chronic inflammatory response; negative regulation of histone deacetylation; T cell mediated immunity; positive regulation of immature T cell proliferation in the thymus; negative regulation of tumor necrosis factor production; chromatin remodeling; negative regulation of interleukin-17 production; positive regulation of CD4-positive, CD25-positive, alpha-beta regulatory T cell differentiation; negative regulation of interleukin-2 biosynthetic process; positive regulation of histone acetylation Disease: Diabetes Mellitus, Insulin-dependent; Immunodysregulation, Polyendocrinopathy, And Enteropathy, X-linked
Research Articles on FOXP3	**1.** Our study has failed to found any association between FOXP3 gene polymorphisms rs2280883, rs3761548 and rs3761549 with endometriosis in Chinese Han patients.
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