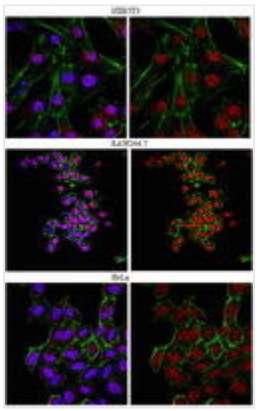
FOXP1 Antibody – Rabbit Polyclonal

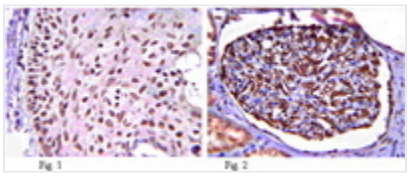
PRODUCT OVERVIEW

Product Name	FOXP1, Polyclonal Antibody
Full Product Name	FOXP1 (Forkhead Box P1, 12CC4, FLJ23741, Forkhead Related Protein-like B, hFKH1B, Glutamine Rich Factor 1, HSPC215, MGC12942, MGC88572, MGC99551, QRF1)
Product Gene Name	anti-FOXP1 antibody
Product Synonym Names	Anti -FOXP1 (Forkhead Box P1, 12CC4, FLJ23741, Forkhead Related Protein-like B, hFKH1B, Glutamine Rich Factor 1, HSPC215, MGC12942, MGC88572, MGC99551, QRF1)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as a liquid in PBS, 0.1M Tris-Glycine, pH 7.4, 150mM sodium chloride, 0.05% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human FOXP1. Species Crossreactivity
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	75,317 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (71004736..71633140, complement). Location: 3p14.1
3D Structure	ModBase 3D Structure for Q548T7
Immunogen	Linear peptide corresponding to the C-terminus of human FOXP1 (KLH).
Positive Control	linear peptide corresponding to the C-terminus of human FOXP1.
Product Categories/Family for anti-FOXP1 antibody	Antibodies; Abs to Transcription Factors
Applications Tested/Suitable for anti-FOXP1 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC)
Application Notes for anti-FOXP1 antibody	Suitable for use in Western Blot, Immunocytochemistry and Immunohistochemistry. Dilution: Western Blot: 1ug/ml Immunohistochemistry: 1:300 Immunocytochemistry: 1:500
Related Product Information for anti-FOXP1 antibody	Forkhead box protein 1 (FOXP1) is a member of the Forkhead family of transcription factors, which have been characterized as transcriptional repressors and activators, and as having a DNA-binding domain distinguished by its formation of a winged-helix motif. FOXP1 is known to be an important regulator of airway morphogenesis, lung epithelial development, and early cardiac development. It is also known to have an important role in conjunction with NF in the development of B-cells and the differentiation of macrophages. Splice variants give rise to four isoforms of FOXP1. The protein is known to form homodimers and heterodimers with FOXP2 and FOXP4. Studies have indicated FOXP1 as a potential inducer of oncogenesis when over expressed. The depletion and mutation of FOXP1 expression may lead to defects in embryonic cardiac, lung and esophagus epithelial development.
Other Notes	Small volumes of anti-FOXP1 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.

Searchable Terms for FOXP1 purchase	MBS630021 is an antibody targeting FOXP1. Also known as FOXP1 (Forkhead Box P1, 12CC4, FLJ23741, Forkhead Related Protein-like B, hFKH1B, Glutamine Rich Factor 1, HSPC215, MGC12942, MGC88572, MGC99551, QRF1). Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunocytochemistry (ICC) of anti-FOXP1 antibody
Immunocytochemistry Analysis: Representative lot data. Confocal fluorescent analysis of NIH/3T3, RAW264.7, and HeLa cells using Anti-FOXP1 (Red). Actin filaments have been labeled with AlexaFluor®488 -Phalloidin (Green). Nucleus is stained with DAPI (Blue). This antibody positively stains the nucleus, also a little staining in the cytosol.



Immunohistochemistry (IHC) of anti-FOXP1 antibody
Immunohistochemistry Analysis: Representative lot data. Paraffin-embedded inflammatory skin disorder (Fig 1) and normal human kidney-glomerulus (Fig. 2) tissue was prepared using heat-induced epitope retrieval in citrate buffer, pH 6.0. Immunostaining was performed using a 1:300 dilution of Anti-FOXP1. Reactivity was detected using the IHC-Select Detection Kit. Staining pattern appears in the nucleus.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOXP1. It may not necessarily be applicable to this product.

NCBI GI #	18644886
NCBI GeneID	27086
NCBI Accession #	NP_116071.2
UniProt Primary Accession #	Q548T7
UniProt Related Accession #	Q548T7; Q6IAJ1; Q8IXF4; Q8N2P0; Q8NAN6; Q8TEA2; Q9BSG9; Q9H334
GenBank Nucleotide #	NM_032682.4
NCBI Official Full Name	forkhead box protein P1 isoform 1
NCBI Official Synonym Full Names	forkhead box P1
NCBI Official Symbol	FOXP1
NCBI Official Synonym Symbols	QRF1; 12CC4; hFKH1B; HSPC215; FLJ23741; MGC12942; MGC88572; MGC99551
UniProt Protein Name	12CC4
Protein Family	Forkhead box protein
UniProt Gene Name	FOXP1
UniProt Entry Name	Q548T7_HUMAN
NCBI Protein Information	forkhead box protein P1; OTTHUMP00000213499; OTTHUMP00000213500; OTTHUMP00000213501; OTTHUMP00000213502; OTTHUMP00000213503; OTTHUMP00000213504; OTTHUMP00000213506; OTTHUMP00000213507; OTTHUMP00000213508; glutamine-rich factor 1; fork head-related protein like B
NCBI Summary for FOXP1	This gene belongs to subfamily P of the forkhead box (FOX) transcription factor family. Forkhead box transcription factors play important roles in the regulation of tissue- and cell type-specific gene transcription during both development and adulthood. Forkhead box P1 protein contains both DNA-binding- and protein-protein binding-domains. This gene may act as a tumor suppressor as it is lost in several tumor types and maps to a chromosomal region (3p14.1) reported to contain a tumor suppressor gene(s). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]

UniProt Comments for FOXP1	FOXP1: Transcriptional repressor. It plays an important role in the specification and differentiation of lung epithelium. Can act with CTBP1 to synergistically repress transcription but CTPBP1 is not essential. Essential transcriptional regulator of B-cell development. Forms homodimers and heterodimers with FOXP2 and FOXP4. Dimerization is required for DNA-binding. Interacts with CTBP1. 5 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Transcription factor; C2H2-type zinc finger protein; Cell cycle regulation Chromosomal Location of Human Ortholog: 3p14.1 Cellular Component: nucleoplasm; nucleus Molecular Function: protein binding; androgen receptor binding; sequence-specific DNA binding; metal ion binding Biological Process: transcription from RNA polymerase II promoter; positive regulation of smooth muscle cell proliferation; response to lipopolysaccharide; osteoclast differentiation; endothelial cell activation; regulation of transcription from RNA polymerase II promoter; macrophage activation; regulation of monocyte differentiation; monocyte activation; regulation of inflammatory response; regulation of interleukin-1 beta secretion; regulation of tumor necrosis factor production; negative regulation of transcription, DNA-dependent; negative regulation of B cell apoptosis Disease: Mental Retardation With Language Impairment And With Or Without Autistic Features
Research Articles on FOXP1	**1.** FOXP1 might play a role in the pathogenesis of nodal diffuse large B-cell lymphoma .
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