Recombinant Human FOXP1 Protein (1-114 aa), GST-tagged

Cat. No. FOXP1-509H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FOXP1 Protein (1-114 aa) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal. Research Area: Transcription. Protein Description: Partial.
Species	Human
Source	E.coli
ProteinLength	1-114 aa
Description	Transcriptional repressor . Can act with CTBP1 to synergistically repress transcription but CTPBP1 is not essential . Plays an important role in the specification and differentiation of lung epithelium. Acts cooperatively with FOXP4 to regulate lung secretory epithelial cell fate and regeneration by restricting the goblet cell lineage program; the function may involve regulation of AGR2. Essential transcriptional regulator of B-cell development. Involved in regulation of cardiac muscle cell proliferation. Involved in the columnar organization of spinal motor neurons. Promotes the formation of the lateral motor neuron column (LMC) and the preganglionic motor column (PGC) and is required for respective appropriate motor axon projections. The segment-appropriate generation of spinal chord motor columns requires cooperation with other Hox proteins. Can regulate PITX3 promoter activity; may promote midbrain identity in bryonic st cell-derived dopamine neurons by regulating PITX3. Negatively regulates the differentiation of T follicular helper cells T(FH)s. Involved in maintainance of hair follicle st cell quiescence; the function probably involves

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	regulation of FGF18 . Represses transcription of various pro-apoptotic genes and cooperates with NF-kappa B-signaling in promoting B-cell expansion by inhibition of caspase-dependent apoptosis . Binds to CSF1R promoter elents and is involved in regulation of monocyte differentiation and macrophage functions; repression of CSF1R in monocytes ses to involve NCOR2 as corepressor . Involved in endothelial cell proliferation, tube formation and migration indicative for a role in angiogenesis; the role in neovascularization ses to implicate suppression of SA5B . Can negatively regulate androgen receptor signaling.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	39.2 kDa
AA Sequence	MMQESGTETKSNGSAIQNGSGGSNHLLECGGLREGRSNGETPAVDIGAADLAHAQQQQQQALQVARQLLLQQQQQQQVSGLKSPKRNDKQPALQVPVSVAMMTPQVITPQQMQQ
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

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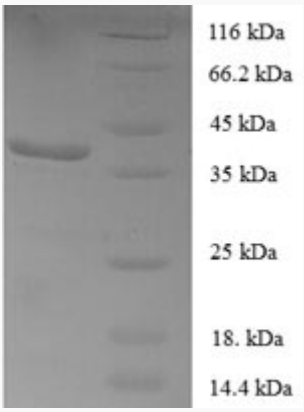
Gene Name	FOXP1 forkhead box P1 [Homo sapiens]
Official Symbol	FOXP1
Synonyms	FOXP1; 12CC4; hFKH1B; HSPC215; QRF1; FLJ23741; MGC12942; MGC88572; MGC99551;
Gene ID	27086
mRNA Refseq	NM_001012505
Protein Refseq	NP_001012523
MIM	605515
UniProt ID	Q9H334



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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