

Recombinant Human FOXP2, His-tagged

Cat. No. FOXP2-12985H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human FOXP2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.

Species Human

Source E.coli

ProteinLength 1-56a.a.

Description This gene encodes a member of the forkhead/winged-helix (FOX) family of transcription factors. It is expressed in fetal and adult brain as well as in several other organs such as the lung and gut. The protein product contains a FOX DNA-binding domain and a large polyglutamine tract and is an evolutionarily conserved transcription factor, which may bind directly to approximately 300 to 400 gene promoters in the human genome to regulate the expression of a variety of genes. This gene is required for proper development of speech and language regions of the brain during embryogenesis, and may be involved in a variety of biological pathways and cascades that may ultimately influence language development. Mutations in this gene cause speech-language disorder 1 (SPCH1), also known as autosomal dominant speech and language disorder with orofacial dyspraxia. Multiple alternative transcripts encoding different isoforms have been identified in this gene.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

GENE INFORMATION

Gene Name FOXP2 forkhead box P2 [Homo sapiens]

Official Symbol FOXP2

Synonyms FOXP2; forkhead box P2; SPCH1, TNRC10; forkhead box protein P2; CAG repeat protein 44; CAGH44; forkhead/winged helix transcription factor; speech and language disorder 1; trinucleotide repeat containing 10; forkhead/winged-helix transcription factor; trinucleotide repeat-containing gene 10 protein; SPCH1; TNRC10; DKFZp686H1726;

Gene ID 93986

mRNA Refseq NM_001172766

Protein Refseq NP_001166237

MIM 605317

UniProt ID O15409

Chromosome Location 7q31

Function DNA binding; DNA binding, bending; chromatin binding; double-stranded DNA binding; metal ion binding; protein heterodimerization activity; protein homodimerization activity; sequence-specific DNA binding; sequence-specific DNA

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