

Recombinant Human FOXP2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FOXP2-4407H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FOXP2 MS Standard C13 and N15-labeled recombinant protein (NP_055306) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	<p>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.</p>
Molecular Mass	79.9 kDa
AA Sequence	MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSSEVSTVELLHLQQQ

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QALQAARQLLLQQQTSGLKSPKSSDKQRPLQVPVSVAMMTPQVITPQQMQQILQQ
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 HIHSIHVKEEPVIAEDEDPCMSLVTTANHSPELEDDREIEEEPLSEDLERTRPLEQKL
 ISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	FOXP2 forkhead box P2 [Homo sapiens (human)]
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](#)

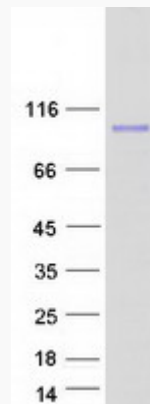
mRNA Refseq [NM_014491](#)

Protein Refseq [NP_055306](#)

MIM [605317](#)

UniProt ID [O15409](#)

SDS-PAGE



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