

Recombinant Full Length Human FOXP2 Protein, C-Flag-tagged

Cat. No. FOXP2-1866HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human FOXP2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	79.7 kDa

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AA Sequence

MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSSEVSTVELLHLQQQ
 QALQAARQLLLQQQT SGLKSPKSSDKQRPLQVPVSVAMMTPQVITPQQMQQILQQ
 QVLSPQQLQALLQQQQAQVMLQQQQLQEFYK KQQEQLHLQLLQQQQQQQQQQQ
 QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQHPGKQAKEQQQQQQQQQQQ AA
 QQLVFQQQLLMQQLQQQHLHSLQRQGLISIPPGQAALPVQSLPQAGLSPAEIQQ
 LWKEVTGVHSME DNGIKHGGDLTTNNSSSTTSSNTSKASPPITHHSIVNGQSSVLS
 ARRDSSSHEETGASHTLYGHGVCKW PGCESICEDFGQFLKHLNNEHALDDRSTAQ
 CRVQMQVVQQLQLEIQLSKERERLQAMMTHLHMRPSEPKPSP KPLNLVSSVTMSKNM
 LETSPQSLPQTPTTPTAPVTPITQGPSVITPASVPNVGAIRRRHSDKYNIPMSSE IAP
 NYEFYKNADVRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKN
 AVRHNLSLHK CFVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPTSLGYGA
 ALNASLQAALAESSPLLSNPGLI NNASSGLLQAVHEDLNGSLDHIDSNGNSSPGCS
 PQPHIHSIHVKEEPVIAEDEDCPMSLVTTANHSPELE DDREIEEEPLSEDL TRTRPL
 EQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining.

Stability

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage

Store at -80 centigrade.

Concentration

>50 ug/mL as determined by microplate BCA method.

Preparation

Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families

Transcription Factors

Full Length

Full L.

GENE INFORMATION

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

Official Symbol FOXP2

Synonyms SPCH1; CAGH44; TNRC10

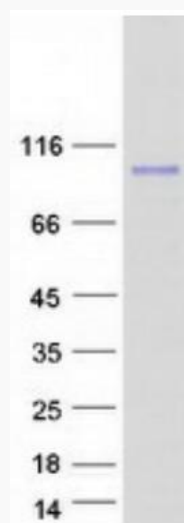
Gene ID 93986

mRNA Refseq NM_014491.4

Protein Refseq NP_055306.1

MIM 605317

UniProt ID O15409



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Coomassie blue staining of purified FOXP2 protein.