



## Human FOXP2 peptide (DAG-P0405)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

|                            |   |
|----------------------------|---|
| <b>Antigen Description</b> | 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.[provided by RefSeq, Feb 2010] |
|----------------------------|---|

|                              |   |
|------------------------------|---|
| <b>Specificity</b>           | Isoform 1 and isoform 6 are expressed in adult and fetal brain, caudate nucleus and lung.   |
| <b>Conjugate</b>             | Unconjugated  |
| <b>Sequence Similarities</b> | Contains 1 C2H2-type zinc finger.Contains 1 fork-head DNA-binding domain.   |
| <b>Format</b>                | Liquid  |
| <b>Preservative</b>          | None  |
| <b>Storage</b>               | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request. |

### GENE INFORMATION

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

**Official Symbol** FOXP2

|                            |  |
|----------------------------|--|
| <b>Synonyms</b>            | FOXP2; forkhead box P2; SPCH1; CAGH44; TNRC10; forkhead box protein P2; CAG repeat protein 44; trinucleotide repeat containing 10; forkhead/winged-helix transcription factor; trinucleotide repeat-containing gene 10 protein;              |
| <b>Entrez Gene ID</b>      | <a href="#">93986</a>  |
| <b>mRNA Refseq</b>         | <a href="#">NM_001172766.2</a>   |
| <b>Protein Refseq</b>      | <a href="#">NP_001166237.1</a>   |
| <b>UniProt ID</b>          | B7ZLK5   |
| <b>Chromosome Location</b> | 7q31   |
| <b>Function</b>            | DNA binding; DNA binding, bending; chromatin binding; metal ion binding; protein heterodimerization activity; protein homodimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; |