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Anti-FOXP2 Picoband Antibody

Catalog # ABO12940

Specification

Anti-FOXP2 Picoband Antibody - Product Information

Application	**WB**
Primary Accession	O15409
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Forkhead box protein P2(FOXP2) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-FOXP2 Picoband Antibody - Additional Information

Gene ID 93986

Other Names
Forkhead box protein P2, CAG repeat protein 44, Trinucleotide repeat-containing gene 10 protein, FOXP2, CAGH44, TNRC10

Calculated MW
79919 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Nucleus .

Tissue Specificity
Isoform 1 and isoform 6 are expressed in adult and fetal brain, caudate nucleus and lung. .

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E. coli-derived human FOXP2 recombinant protein (Position: L637-E715). Human FOXP2 shares 100% amino acid (aa) sequence identity with both mouse and rat FOXP2.

Purification
Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time. Avoid repeated freezing and thawing.**

Anti-FOXP2 Picoband Antibody - Protein Information

Name FOXP2

Synonyms CAGH44, TNRC10

Function
Transcriptional repressor that may play a role in the specification and differentiation of lung epithelium. May also play a role in developing neural, gastrointestinal and cardiovascular tissues. Can act with CTBP1 to synergistically repress transcription but CTPBP1 is not essential. Plays a role in synapse formation by regulating SRPX2 levels. Involved in neural mechanisms mediating the development of speech and language.

Cellular Location
Nucleus.

Tissue Location
Isoform 1 and isoform 6 are expressed in adult and fetal brain, caudate nucleus and lung.

Anti-FOXP2 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-FOXP2 Picoband Antibody - Images

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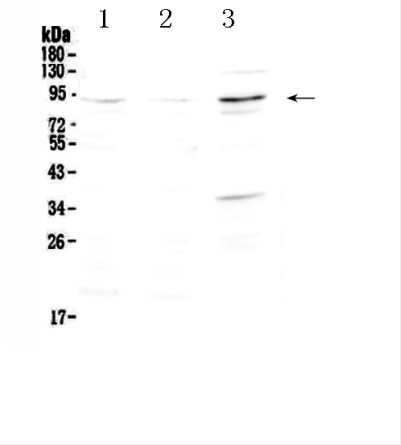

Figure 1. Western blot analysis of FOXP2 using anti-FOXP2 antibody (ABO12940).

Anti-FOXP2 Picoband Antibody - Background

Forkhead box protein P2 (FOXP2) is a protein that, in humans, is encoded by the FOXP2 gene. 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.