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Goat Anti-FOXP2 (internal) Antibody

Peptide-affinity purified goat antibody
Catalog # AF1437b

Specification

Goat Anti-FOXP2 (internal) Antibody - Product Information

Application	**WB, IHC**
Primary Accession	O15409
Other Accession	NP_683698, 93986, 114142 (mouse)
Reactivity	**Human, Rat**
Predicted	**Mouse, Zebrafish, Pig, Dog, Cat**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**79919**

Goat Anti-FOXP2 (internal) 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

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-FOXP2 (internal) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-FOXP2 (internal) 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.

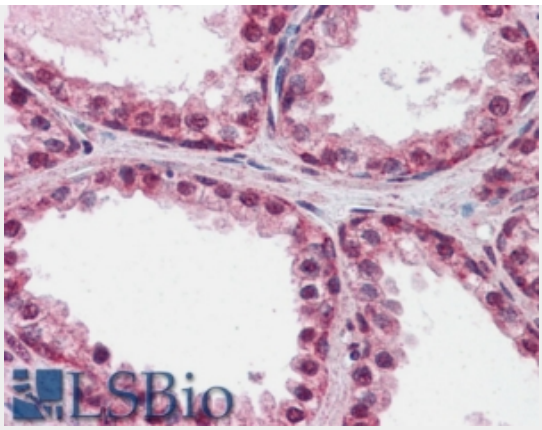
Goat Anti-FOXP2 (internal) Antibody - Protocols

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

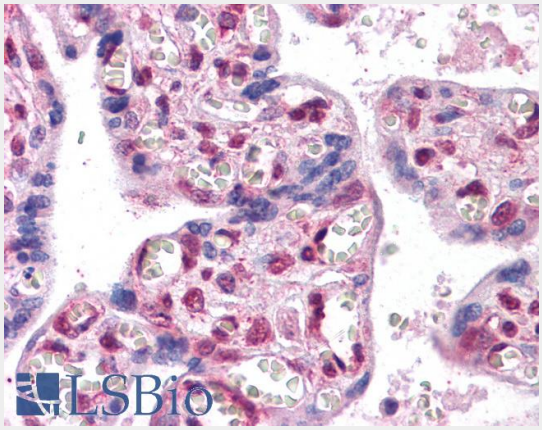
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-FOXP2 (internal) Antibody - Images

AF1437b (0.3 µg/ml) staining of Human Brain (Cerebellum) lysate (35 µg protein in RIPA buffer). Detected by chemiluminescence.



AF1437b (2.5 µg/ml) staining of paraffin embedded Human Prostate. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



AF1437b (2.5 µg/ml) staining of paraffin embedded Human Placenta. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-FOXP2 (internal) Antibody - Background

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.

Goat Anti-FOXP2 (internal) Antibody - References

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Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.
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SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.
New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.
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