abcam

Product datasheet

Anti-FOXP2 antibody ab207587

★★★★☆ 1 Abreviews   1 Image

Overview

Product name	Anti-FOXP2 antibody
Description	Rabbit polyclonal to FOXP2
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
	Predicted to work with: Mouse, Rat, Xenopus laevis, Chimpanzee, Rhesus monkey, Gorilla

Immunogen

Recombinant fragment corresponding to Human FOXP2 aa 214-445.

Sequence:

QLVFQQQLLQMQQLQQQQHLLSLQRQGLISIPPGQAA
LPVQSLPQAGLSP
AEIQQLWKEVTGVHSMEDNGIKHGGLDLTTNNSSSTTS
SNTSKASPPITH
HSIVNGQSSVLSARRDSSSHEETGASHTLYGHGVCKW
PGCESICEDFGQF
LKHLNNEHALDDRSTAQCRVQMQVVQQLEIQLSKERE
RLQAMMTHLHMRP
SEPKPSPKPLNLVSSVTMSKNMLETSPQSLPQ

Database link: O15409

🖼 Run BLAST with   🖼 Run BLAST with

Positive control   Human fetal brain tissue lysate.

Properties

Form	Lyophilised:Reconstitute in 200 µl sterile water.
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituents: 98% PBS, 1% BSA
Purity	Immunogen affinity purified

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Clonality	Polyclonal
Isotype	IgG

Applications

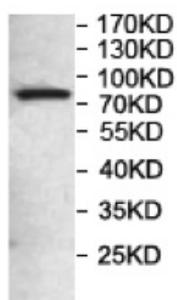Our Abpromise guarantee covers the use of **ab207587** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/200 - 1/1000. Predicted molecular weight: 80 kDa.

Target

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. Involved in neural mechanisms mediating the development of speech and language.
Tissue specificity	Isoform 1 and isoform 6 are expressed in adult and fetal brain, caudate nucleus and lung.
Involvement in disease	Defects in FOXP2 are the cause of speech-language disorder 1 (SPCH1) [MIM:602081]; also known as autosomal dominant speech and language disorder with orofacial dyspraxia. Affected individuals have a severe impairment in the selection and sequencing of fine orofacial movements, which are necessary for articulation. They also show deficits in several facets of language processing (such as the ability to break up words into their constituent phonemes) and grammatical skills. Note=A chromosomal aberration involving FOXP2 is a cause of severe speech and language impairment. Translocation t(5;7)(q22;q31.2).
Sequence similarities	Contains 1 C2H2-type zinc finger. Contains 1 fork-head DNA-binding domain.
Developmental stage	Expressed in the brain at 15 and 22 weeks of gestation, with a pattern of strong cortical, basal ganglia, thalamic and cerebellar expression. Highly expressed in the head and tail of nucleus caudatus and putamen. Restricted expression within the globus pallidus, with high levels in the pars interna, which provides the principal source of output from the basal ganglia to the nucleus centrum medianum thalami (CM) and the major motor relay nuclei of the thalamus. In the thalamus, present in the CM and nucleus medialis dorsalis thalami. Lower levels are observed in the nuclei anterior thalami, dorsal and ventral, and the nucleus parafascicularis thalami. Expressed in the ventrobasal complex comprising the nucleus ventralis posterior lateralis/medialis. The ventral tier of the thalamus exhibits strong expression, including nuclei ventralis anterior, lateralis and posterior lateralis pars oralis. Also expressed in the nucleus subthalamicus bilaterally and in the nucleus ruber.
Domain	The leucine-zipper is required for dimerization and transcriptional repression.
Cellular localization	Nucleus.

Images

Anti-FOXP2 antibody (ab207587) at 1/500 dilution + Human fetal brain tissue lysate

Predicted band size: 80 kDa

Western blot - Anti-FOXP2 antibody (ab207587)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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