

Datasheet: AHP2020

Description:	GOAT ANTI HUMAN FOXP2 (C-TERMINAL)
Specificity:	FOXP2 (C-TERMINAL)
Other names:	FORKHEAD BOX P2
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA	■			1/32000
Immunoprecipitation			■	
Western Blotting	■			0.5 - 1.5ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Based on sequence similarity, is expected to react with:Mammals N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to human FOXP2 (CT) was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	TRIS buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃) 0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	Peptide with sequence C-REIEEEPLSEDLE from the C Terminus of FOXP2.

**External Database
Links**

UniProt:

[O15409](#) [Related reagents](#)

Entrez Gene:

[93986](#) FOXP2 [Related reagents](#)

Synonyms

CAGH44, TNRC10

Specificity

Goat anti Human FOXP2 antibody recognizes Forkhead box protein P2, also known as FOXP2, CAG repeat protein 44 or Trinucleotide repeat-containing gene 10 protein. FOXP2 is a 715 amino acid ~80 kDa nuclear transcriptional repressor with a role in brain and lung development.

Mutations in the FOXP2 gene has been identified Speech-language disorder 1 ([SPCH1](#)), a disorder characterized by severe orofacial dyspraxia with speech impairment ([Lai et al. 2001](#)).

Multiple potential isoforms of FOXP2 generated by alternative splicing have been described. Goat anti Human FOXP2 antibody (**AHP2020**) is expected to recognize the canonical isoform 1 and also isoforms 3 and 9. However the antibody is not expected other isoforms which lack the c-terminal region ([UniProt : O15409](#)).

Western Blotting

AHP2020 detects a band of approximately 80kDa in human cerebellum cell lysates.

References

1. Vernes, S.C. *et al.* (2007) High-throughput analysis of promoter occupancy reveals direct neural targets of FOXP2, a gene mutated in speech and language disorders. [Am J Hum Genet. 81 \(6\): 1232-50.](#)
2. Vernes, S.C. *et al.* (2006) Functional genetic analysis of mutations implicated in a human speech and language disorder. [Hum Mol Genet. 15 \(21\): 3154-67.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10058 available at:
10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

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