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diagnostic or therapeutic use.**

EB05226-T - Goat Anti-FOXP2 (C terminus) Antibody - Trial

Size: 20µg specific antibody in 40µl



Target Protein

Principal Names: FOXP2, forkhead box P2, SPCH1, CAGH44, TNRC10, CAG repeat protein 44, speech and language disorder 1, trinucleotide repeat containing 10, forkhead/winged-helix transcription factor, DKFZp686H1726, OTTHUMP00000196932

Official Symbol: FOXP2

Accession Number(s): NP_055306.1; NP_683696.2; NP_683697.1

Human GeneID(s): [93986](#)

Important Comments: This antibody is expected to recognise all three reported isoforms (NP_055306.1; NP_683696.2; NP_683697.1).

Immunogen

Peptide with sequence C-REIEEEPLSEDLE, from the C Terminus of the protein sequence according to NP_055306.1; NP_683696.2; NP_683697.1.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:128000.

Western blot: Approx 80-90kDa band observed in Human Brain (Cerebellum) lysates (calculated MW of 82.6kDa according to NP_683696.2). This molecular weight is routinely observed by other sources. Recommended concentration: 0.5-2µg/ml. Primary incubation 1 hour at room temperature.

Species Reactivity

Tested: Human

Expected from sequence similarity: Human, Mouse, Rat, Dog, Pig, Cow

Specific References

This antibody (previous batch) has been successfully used in ICC on Mouse:

Yuanjun Luo, Yuhan Chao, Jingyun Zhang, Tatsumi Hirata and Izumi Sugihara
Neurogenic timing of the inferior olive subdivisions is related to the olivocerebellar projection topography

Research Square, August 2022, [<https://doi.org/10.21203/rs.3.rs-1923633/v1>]

PMID: 37130860

This antibody (previous batch) has been successfully used in ICC on Mouse:

Khoa Tran-Anh, Jingyun Zhang, Viet Tuan Nguyen-Minh, Hirofumi Fujita, Tatsumi Hirata and Izumi Sugihara

Common Origin of the Cerebellar Dual Somatotopic Areas Revealed by Tracking Embryonic Purkinje Cell Clusters with Birthdate Tagging

eNeuro. 2020 Dec 14;7(6):ENEURO.0251-20.2020.

PMID: 33055198

This antibody (previous batch) has been successfully used in IF on Mouse:

Martinez-Chavez E, Scheerer C, Wizenmann A, Blaess S

The zinc-finger transcription factor GLI3 is a regulator of precerebellar neuronal migration. Development. 2018 Dec 17;145(24). pii: dev166033.

PMID: 30470704

This antibody (previous batch) has been successfully used in ICC on Mouse:

Gideon A Sarpong, Suteera Vibulyaseck, Yuanjun Luo, Mohammad S Biswas, Hirofumi Fujita, Shinji Hirano, Izumi Sugihara

Cerebellar modules in the olivo-cortico-nuclear loop demarcated by pcdh10 expression in the adult mouse

J Comp Neurol. 2018 Oct 15;526(15):2406-2427

PMID: 30004589

This antibody (previous batch) has been successfully used in IF on Mouse:

Vibulyaseck S, Fujita H, Luo Y, Tran AK, Oh-Nishi A, Ono Y, Hirano S, Sugihara I

Spatial rearrangement of Purkinje cell subsets forms the transverse and longitudinal compartmentalization in the mouse embryonic cerebellum.

J Comp Neurol. 2017 Oct 1;525(14):2971-2990.

PMID: 28542916

This antibody (previous batch) has been successfully used in IHC on Human and Mouse:

Haldipur P, Dang D, Aldinger KA, Janson OK, Guimiot F, Adle-Biasette H, Dobyns WB, Siebert JR, Russo R, Millen KJ.

Phenotypic outcomes in Mouse and Human Foxc1 dependent Dandy-Walker cerebellar malformation suggest shared mechanisms.

Elife. 2017 Jan 16;6. pii: e20898. doi: 10.7554/eLife.20898.

PMID: 28092268

This antibody (previous batch) has been successfully used in WB and IHC on Chicken:

Vibulyaseck S, Luo Y, Fujita H, Oh-Nishi A, Ohki-Hamazaki H, Sugihara I

Compartmentalization of the chick cerebellar cortex based on the link between the striped expression pattern of aldolase C and the topographic olivocerebellar projection

J Comp Neurol. 2015 Sep 1;523(13):1886-912.

PMID: 25732420

This antibody (previous batch) has been successfully used in IHC on Mouse:

Fujita H, Morita N, Furuichi T, Sugihara I.

Clustered fine compartmentalization of the mouse embryonic cerebellar cortex and its rearrangement into the postnatal striped configuration.

J Neurosci. 2012 Nov 7;32(45):15688-703.

PMID: 23136409

This antibody (previous batch) has been successfully used in IHC on Mouse:

Fujita H, Sugihara I.

FoxP2 expression in the cerebellum and inferior olive: Development of the transverse stripe-shaped expression pattern in the mouse cerebellar cortex.

J Comp Neurol. 2012 Feb 15;520(3):656-77. doi: 10.1002/cne.22760.

PMID: 21935935

EB05226 (2µg/ml) staining of Human Cerebellum lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.