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 has been successfully used in the following paper:
Amber G. Cook, Taylor V. Bishop, Hannah R. Crowe, Daniel N. Stevens, Lauren Reine, Alexandra L. Joyner and Andrew K. Lawton
Cell division angle predicts the level of tissue mechanics that tune the amount of cerebellar folding.
Development. 2024 Feb 1;151(3):dev202184.
PMID: 38251865

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 cerebellarmal
formation 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

250kDa
150kDa
100kDa
75kDa

50kDa

37kDa

25kDa

20kDa

15kDa
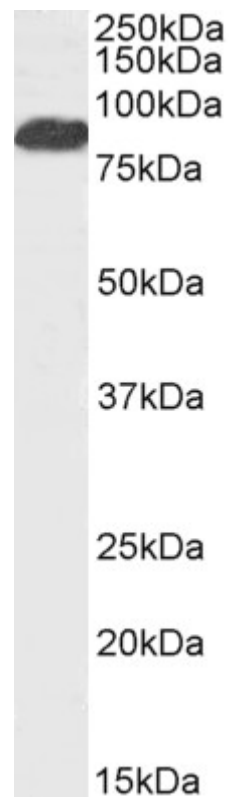
EB05226 (2µg/ml) staining of Human Cerebellum lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.