NEUROMICS

FOXP2 Data Sheet

Catalog Number:	GT41022	**Host:**	Goat
Product Type:	Affinity Purified Antibody	**Species Reactivity:**	Human, Rat
Immunogen Sequence:	Peptide with sequence C-DEVEYQKRRSQKIT, from the internal region of the protein sequence according to NP_055306.1; NP_683696.2; NP_683697.2; NP_683698.2; NP_001166237.1.	**Format:**	Liquid 200 ul. (0.5 mg/ml). Tris saline, 0.02% sodium azide, pH 7.3, 0.5% BSA
Applications:	Immunohistochemistry: 2.0-4.0 µg/ml (paraffin embedded tissue only). Western Blot: 0.3-1.0 µg/ml. Peptide ELISA: 1:32,000. Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.		
Storage:	Aliquot and store at -20°C. *Avoid repeated freeze-thaw cycles.*		

Application Notes

Western Blot:
Approx 85kDa band observed in Human Brain (Cerebellum and Frontal Cortex) lysates and in Rat Brain lysates (calculated MW of 82.6kDa according to NP_683696.1). Recommended concentration are 0.3-1µg/ml. An additional band of unknown identity was also consistently observed at 28-30kDa. This band was successfully blocked by incubation with the immunising peptide.

Immunohistochemistry:
Tissue Preparation: Formalin fixation and embedding in paraffin wax.

Tissue Sectioning: Make 4-µm sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-drying oven for 45 minutes at 60°C.

Deparaffinization: Wash dry slides in 3 changes of xylene – 5 minutes each at Room Temperature.

Rehydration: Wash slides in 3 changes of 100% alcohol – 3 minutes each at Room Temperature. Wash slides in 2 changes of 95% alcohol – 3 minutes each at Room Temperature Wash slides in 1 change of 80% alcohol – 3 minutes at Room Temperature. Rinse slides in gentle running distilled water – 5 minutes at Room Temperature.

Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes. Remove from heat and let stand at room temperature in buffer - 20 minutes. Rinse in 1X TBS with Tween (TBST) – 1 minute at Room Temperature.

Immunostaining: (Do not allow tissues to dry at any time during the staining procedure). Apply a universal protein block – 20 minutes at Room Temperature. Drain protein block from slides, apply diluted primary antibody – 45 minutes at Room Temperature. Rinse slides in 1X TBST - 1 minute at Room Temperature. Apply a horse-anti-goat IgG , biotin secondary (HO30002)*– 30 minutes at Room Temperature. Rinse slides in 1X TBST - 1 minute at Room Temperature. Apply alkaline phosphatase streptavidin – 30 minutes at Room Temperature. Rinse slides in 1X TBST - 1 minute at Room Temperature. Apply alkaline phosphatase chromogen substrate – 30 minutes at Room Temperature. Wash slides in distilled water – 1 minute at Room Temperature

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Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB). Wash slides in 2 changes of 80% alcohol – 1 minute each at Room Temperature. Wash slides in 2 changes of 95% alcohol – 1 minute each at Room Temperature. Wash slides in 3 changes of 100% alcohol – 1 minute each at Room Temperature. Wash slides in 3 changes of xylene – 1 minute each at Room Temperature. Apply coverslip

* Horse anti-goat IgG, Biotin (catalog# HO30002)

Image: FOXP2 (dilution: 2.5 µg/ml) staining of paraffin embedded Human Prostate. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

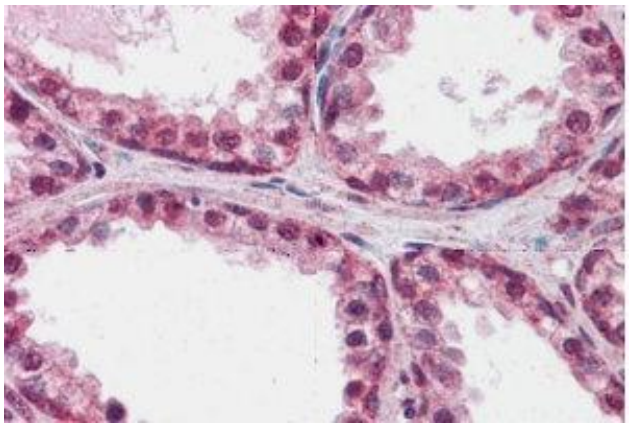

Image: FOXP2 (dilution: 0.3µg/ml) staining of Human Brain (cerebellum) lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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