NEUROMICS

FOXP3/Scurfin Data Sheet

Catalog Number:	GT41002	**Host:**	Goat
Product Type:	Affinity Purified Antibody	**Species Reactivity:**	Human
Immunogen Sequence:	Synthetic peptide: SQRPSRCSNPTPGP, from the C Terminus of the protein sequence according to NP_054728.2; NP_001107849.1.	**Format:**	Liquid 0.5 mg/ml. Tris saline, 0.02% sodium azide, pH 7.3, 0.5% BSA
Applications:	Immunohistochemistry- 0.3-1 µg/ml. Peptide ELISA-1:16,000		
	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.		
Storage:	Aliquot and store at -20°C. *Avoid repeated freeze-thaw cycles.*		

References:

Mansour H, Homs S, Desvaux D, Badoual C, Dahan K, Matignon M, Audard V, Lang P, Grimbert P. Intragraft levels of Foxp3 mRNA predict progression in renal transplants with borderline change. J Am Soc Nephrol. 2008 Dec;19(12):2277-81.

Banham AH, Brown PJ, Lyne L, Schulze HJ, Hallermann C. Is FOXP3 expressed in cutaneous T-cell lymphomas? Eur J Haematol. 2008 Jan;80(1):90-1. PMID: 18036183

Baumforth KR, Birgersdotter A, Reynolds GM, Wei W, Kapatai G, Flavell JR, Kalk E, Piper K, Lee S, Machado L, Hadley K, Sundblad A, Sjoberg J, Bjorkholm M, Porwit AA, Yap LF, Teo S, Grundy RG, Young LS, Ernberg I, Woodman CB, Murray PG.

Application Notes

Specificity:
This antibody is expected to recognise all reported isoforms (NP_004073.2; NP_075408.1; NP_001128512.1; NP_001128513.1)

In paraffin embedded Human Cerebellum, antibody shows pixulate staining of cytoplasm in neuronal cells. In paraffin embedded Human Testis shows cytoplasm staining in cells of the seminiferous tubules.

Immunohistochemistry:
Tissue Preparation: Formalin fixation and embedding in paraffin wax. *Note: also works on frozen tissue using 0.5% Triton-X.*

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.

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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

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

Western Blot:

Band at approx 150kDa observed in cell l line A549 and in Human Testis lysates (calculated MW of 142kDa according to NP_004073.2)

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

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