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<b>Catalog Number:</b>	GT41001	<b>Host:</b>	Goat
<b>Product Type:</b>	Affinity Purified Antibody	<b>Species Reactivity:</b>	Human
<b>Immunogen Sequence:</b>	Synthetic peptide: LKACYYQIQREKLN, from the C Terminus of the protein sequence according to NP_065970.2.	<b>Format:</b>	Liquid 0.5 mg/ml. Tris saline, 0.02% sodium azide, pH 7.3, 0.5% BSA
<b>Applications:</b>	Immunohistochemistry- 5-10µg/ml.  Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.		
<b>Storage:</b>	Aliquot and store at -20°C. <i>Avoid repeated freeze-thaw cycles.</i>		
<b>References:</b>	Yang Y, Hentati A, Deng HX, Dabagh O, Sasaki T, Hirano M, Hung WY, Ouahchi K, Yan J, Azim AC, Cole N, Gascon G, Yagmour A, Ben-Hamida M, Pericak-Vance M, Hentati F, Siddique T. The gene encoding alsin, a protein with three guanine-nucleotide exchange factor domains, is mutated in a form of recessive amyotrophic lateral sclerosis. Nat Genet. 2001 Oct;29(2):160-5.		

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### Application Notes

#### Specificity

In paraffin embedded Human Cortex shows pixulate cytoplasm staining in some neuronal cells.

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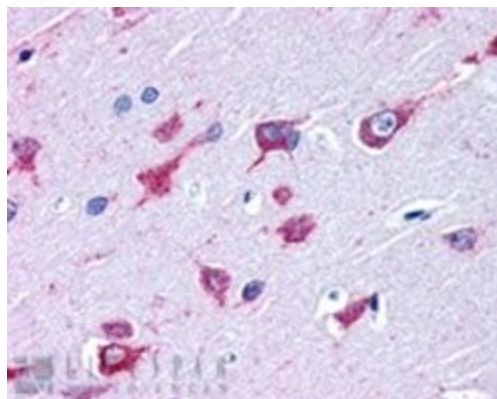
Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB). Wash slides in 2 changes of 80% alcohol – 1 minute each at Room Temperature. Wash slides in 2 changes of 95% alcohol – 1 minute each at Room Temperature. Wash slides in 3 changes of 100%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

**Description/Data:**

Alsin2 specifically binds to, and functions as a guanine nucleotide exchange factor (GEF) for the small GTPase RAB5. It contains an ATS1/RCC1-like domain, a RhoGEF domain, and a vacuolar protein sorting 9 (VPS9) domain, all of which are guanine-nucleotide exchange factors that activate members of the Ras superfamily of GTPases. The protein localizes with RAB5 on early endosomal compartments, and functions as a modulator for endosomal dynamics.

*Image:Alsin (dilution: 3.8µg/ml) staining of human brain tissue, cortex (formalin-fixed paraffin-embedded) at 5 ug/ml followed by biotinylated horse anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.*



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