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EB09785 - Goat Anti-KCNN4 / KCa3.1 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: hIKCa1, hKCa4, hSK4, IK1, IKCA1, intermediate conductance calcium-activated potassium channel protein 1, KCa3.1, KCA4, potassium intermediate/small conductance calcium-activated channel, subfamily N, member 4, putative erythrocyte intermediate, SK4, KCNN4
Official Symbol: KCNN4
Accession Number(s): NP_002241.1
Human GeneID(s): 3783
Non-Human GeneID(s): 16534 (mouse), 65206 (rat)

Immunogen

Peptide with sequence C-ERQAVNATGHLSD, from the internal region of the protein sequence according to NP_002241.1.

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

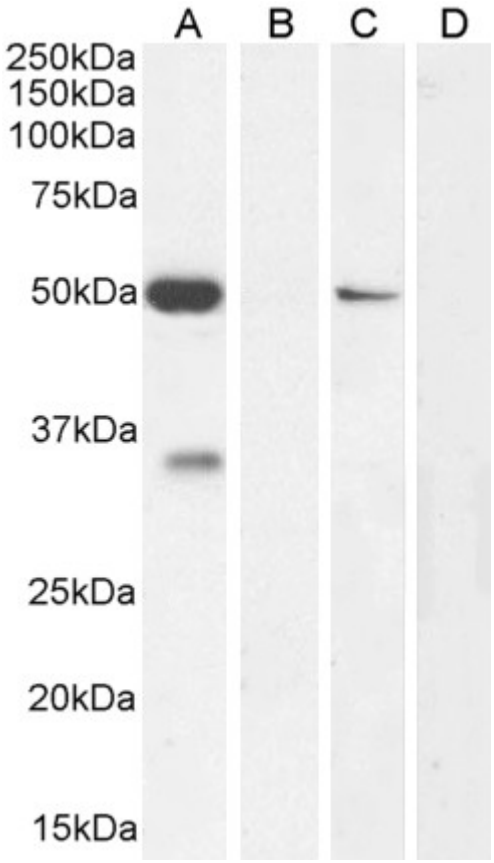
Peptide ELISA: antibody detection limit dilution 1:16000.
Western blot: Approx 50kDa band observed in Human Cerebellum lysates and in lysates of cell line NIH3T3 (calculated MW of 47.7kDa, according to Human NP_002241.1 and Mouse NP_032459.3). An additional band of unknown identity was also consistently observed at 35kDa in Cerebellum. This band was successfully blocked by incubation with the immunising peptide. Recommended concentration: 0.1-0.3µg/ml. Primary incubation 1 hour at room temperature. **Negative Control:** Human Adrenal Gland lysate.
IHC: Paraffin embedded Human Adrenal Gland, Kidney and Liver. Recommended concentration: 3.75µg/ml.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm/membranes of HeLa cells. Recommended concentration: 10µg/ml.

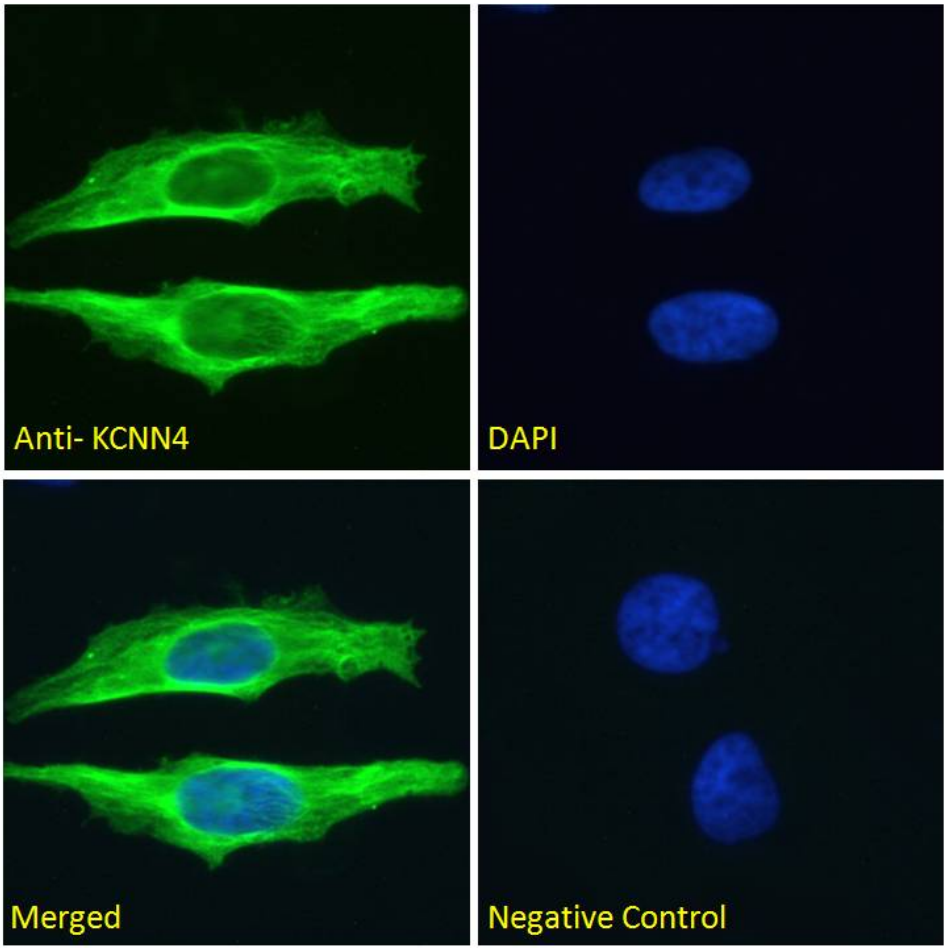
Flow Cytometry: Flow cytometric analysis of HEK293 cells. Recommended concentration: 10ug/ml.

Species Reactivity

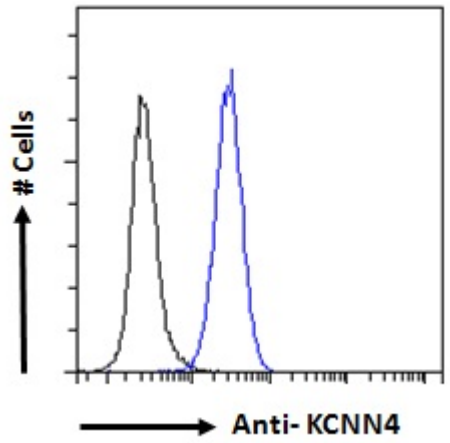
Tested: Human, Mouse
Expected from sequence similarity: Human, Mouse, Rat, Dog



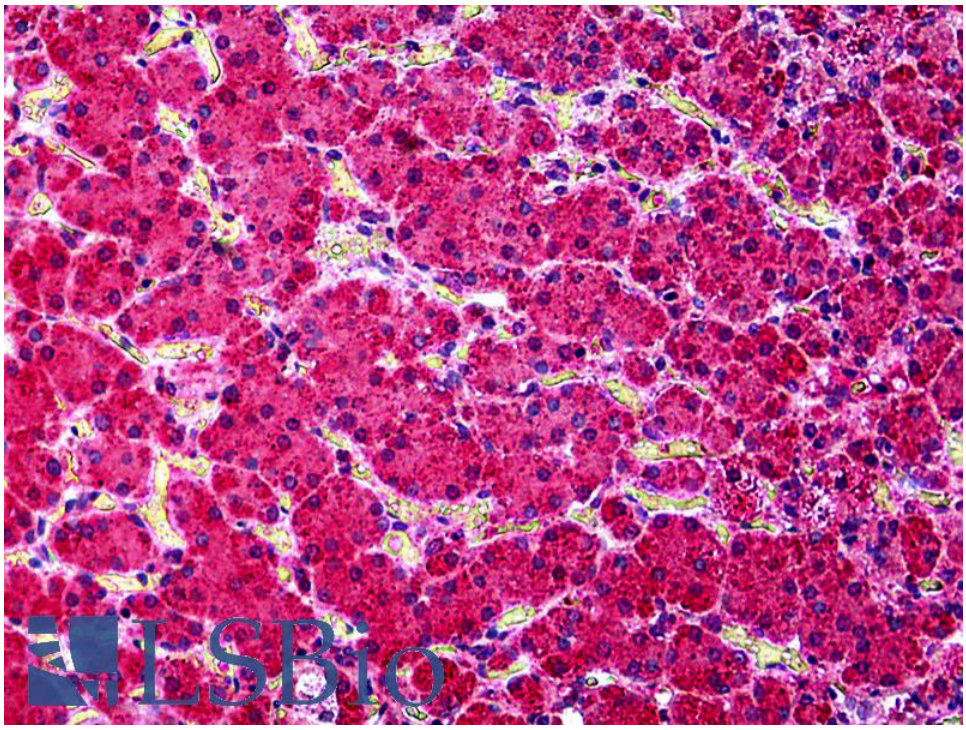
EB09785 (0.1µg/ml) staining of Human Cerebellum (A) + Peptide (B), NIH3T3 (C) and negative Control Adrenal Gland (D) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



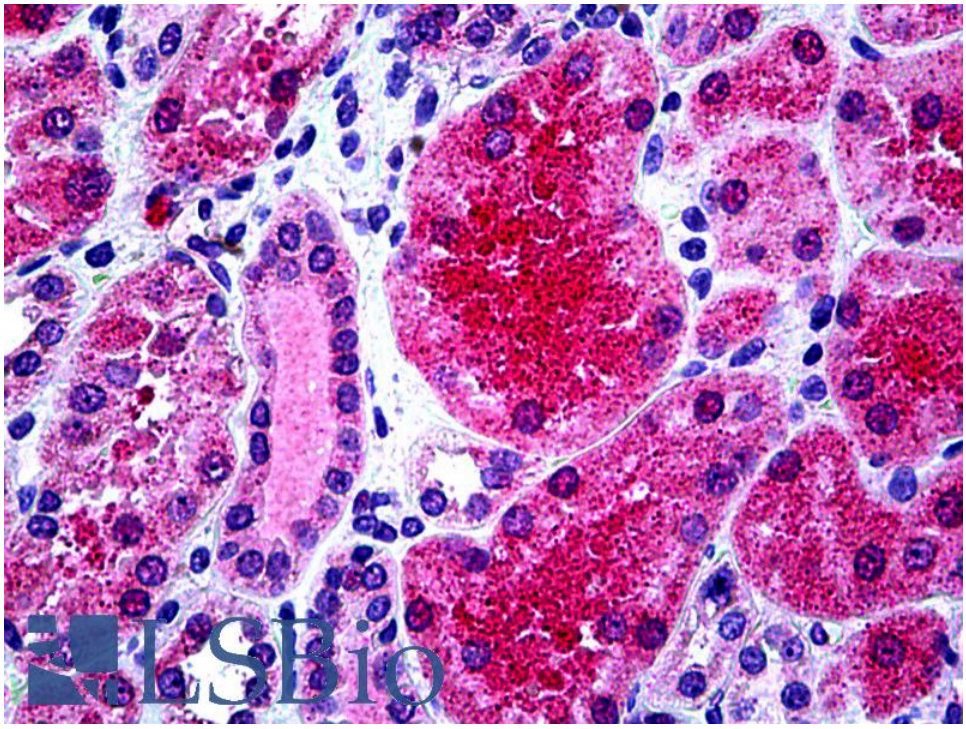
EB09785 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane/cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



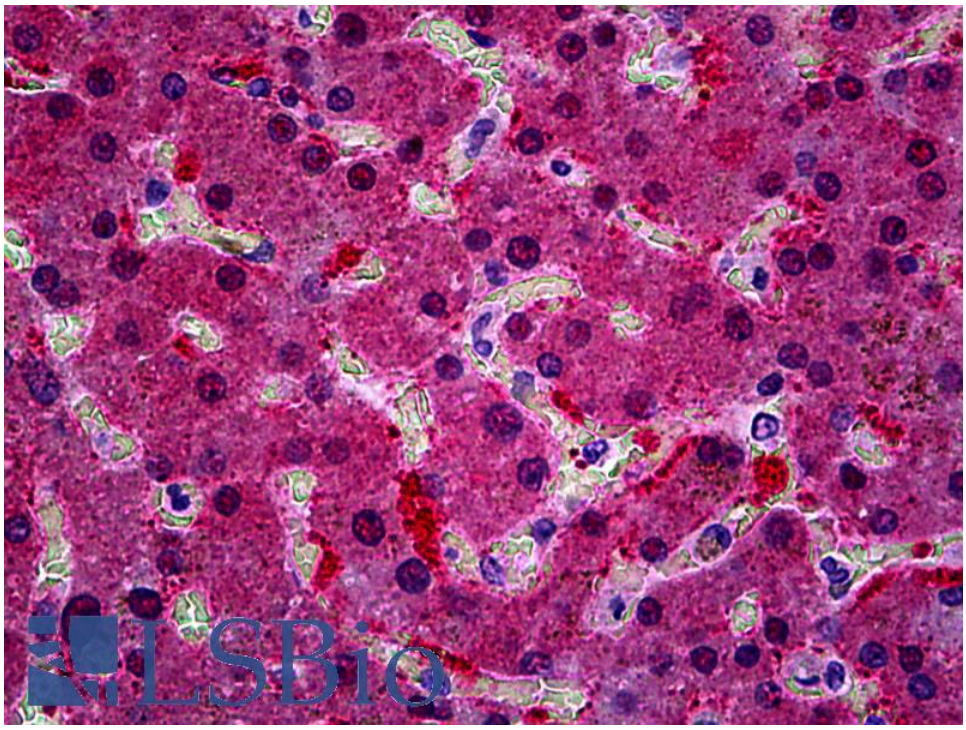
EB09785 Flow cytometric analysis of paraformaldehyde fixed HEK293 cells (blue line), permeabilized with 0.5% Triton. Primary incubation overnight at 4°C (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



EB09785 (3.75µg/ml) staining of paraffin embedded Human Adrenal Gland. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB09785 (3.75µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB09785 (3.75µg/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.