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**Research Use Only. Not for
diagnostic or therapeutic use.**

EB09785 - Goat Anti-KCNN4 / KCa3.1 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: hKCa1, 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.

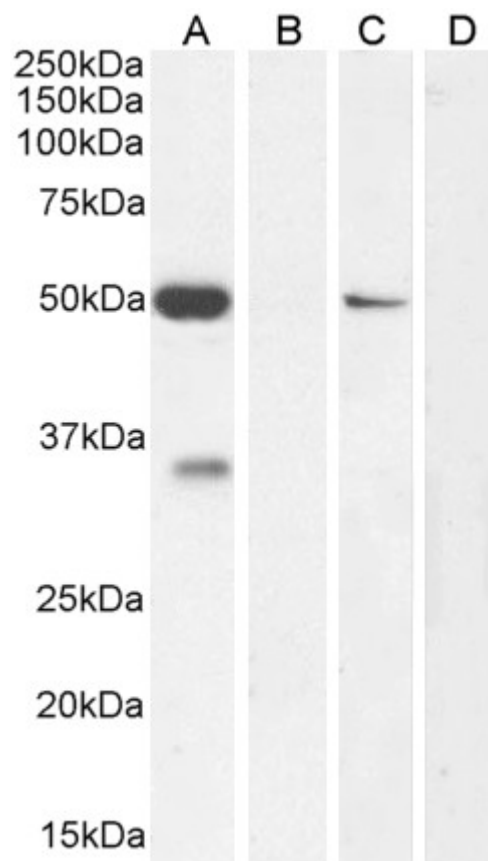
Immunofluorescence: Strong expression of the protein seen in the cytoplasm/membranes of HeLa cells. Recommended concentration: 10µg/ml.

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

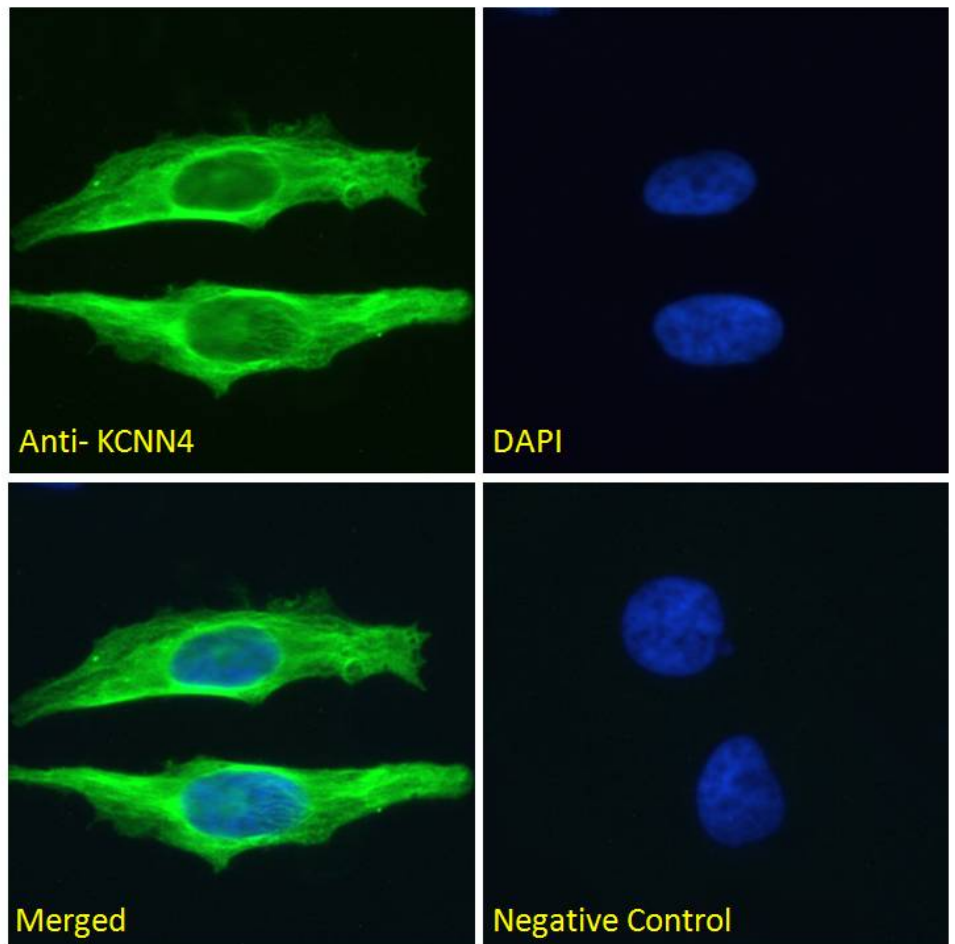
Species Reactivity

Tested: Human, Mouse

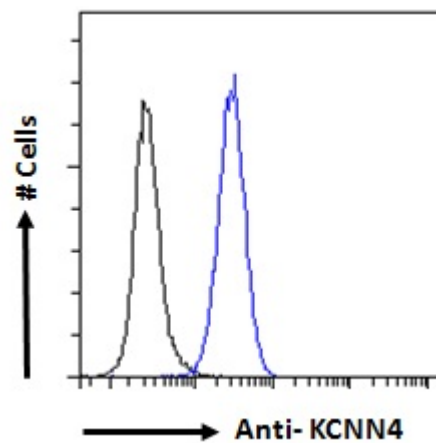
Expected from sequence similarity: Human, Mouse, Rat, Dog



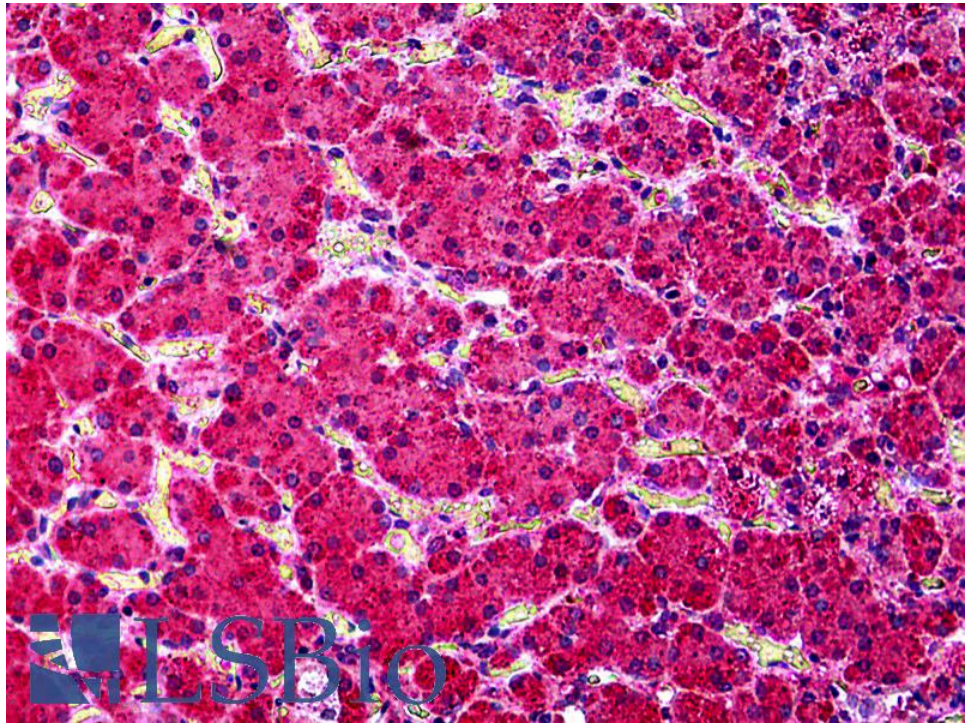
EB09785 (0.1µg/ml) staining of Human Cerebellum (A) + Peptide (B), NIH3T3 (C) and negative Control Adrenal Gland (D) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



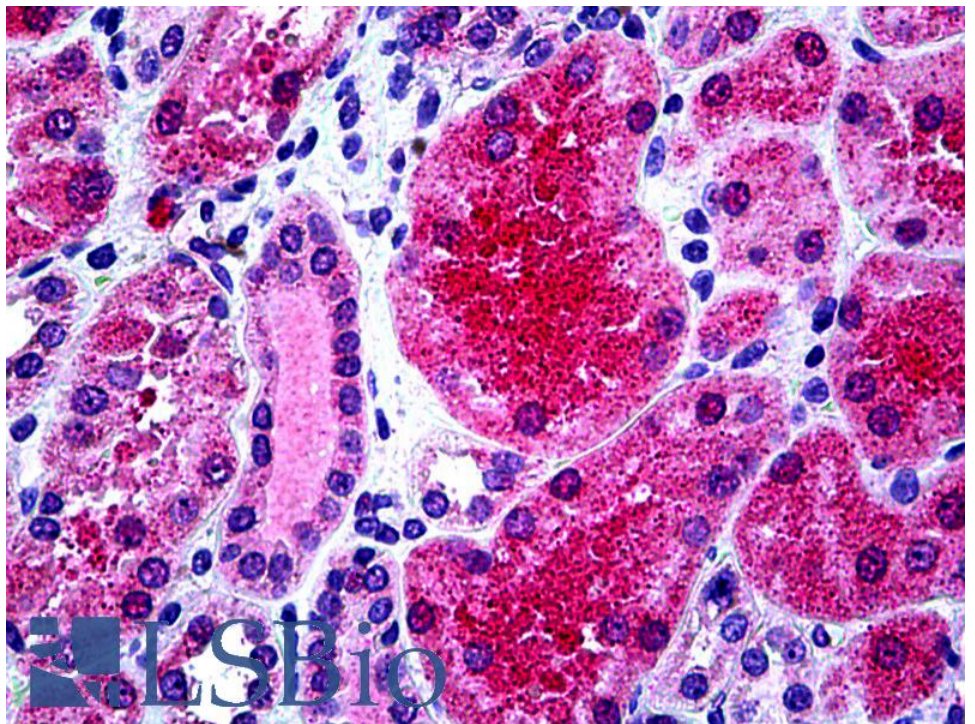
EB09785 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane/cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat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



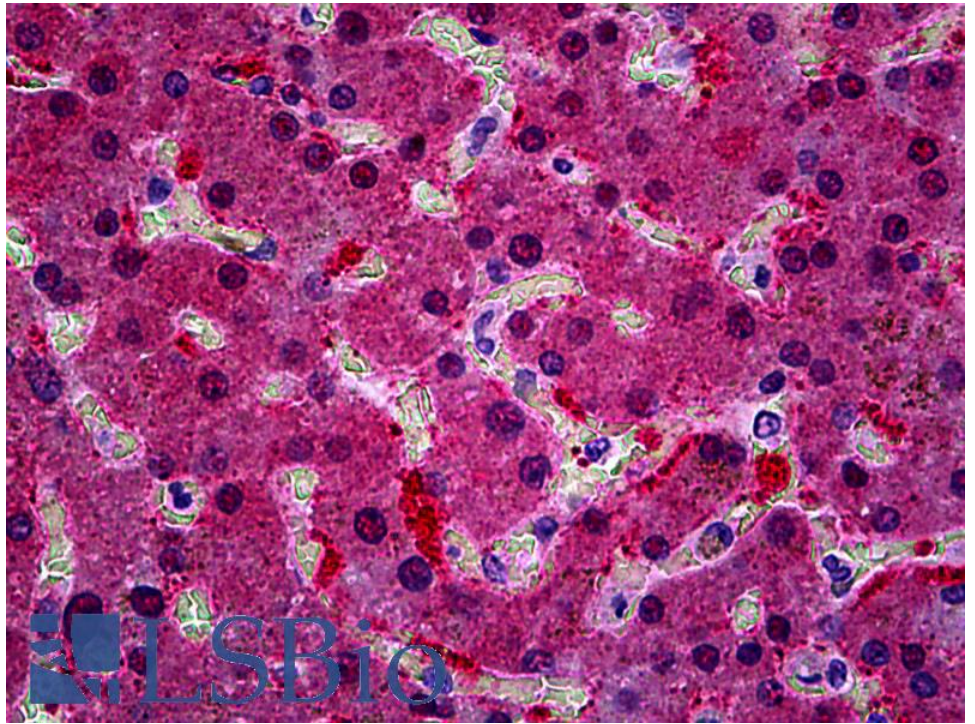
EB09785 Flow cytometric analysis of paraformaldehyde fixed HEK293 cells (blue line), permeabilized with 0.5% Triton. Primary incubation overnight at 4°C (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary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