

Goat KCNN4/KCa3.1 Antibody | anti-KCNN4 antibody

Goat Anti-KCNN4/KCa3.1 Antibody

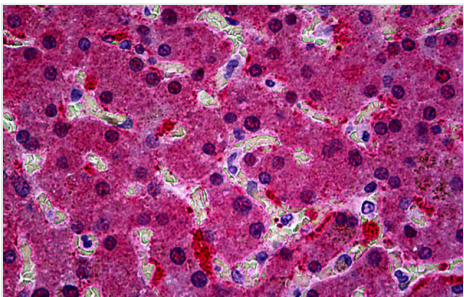
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13678	Goat	Human, Mouse Expected from sequence similarity: Human, Mouse, Rat, Dog	ELISA, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

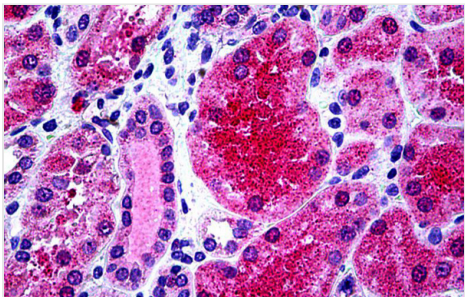
KCNN4/KCa3.1; Goat Anti-KCNN4/KCa3.1 Antibody; KCNN4; potassium intermediate/small conductance calcium-activated channel; subfamily N; member 4; IK1; IKCA1; KCA4; KCa3.1; SK4; hIKCa1; hKCa4; hSK4; intermediate conductance calcium-activated potassium channel protein 1; putative erythrocyte intermediate conductance calcium-activated potassium Gardos channel; anti-KCNN4 antibody

PRODUCT SPECIFICATIONS

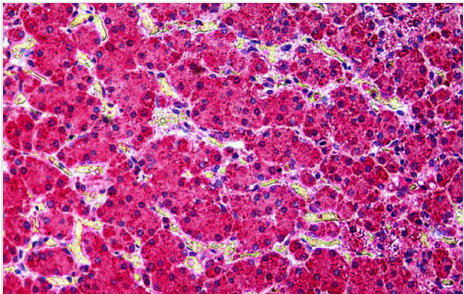
Host	Goat
Reactivity	Human, Mouse Expected from sequence similarity: Human, Mouse, Rat, Dog
Purity/Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Form/Format	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Sequence Length	427
Applicable Applications for anti-KCNN4 antibody	ELISA (Peptide ELISA), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Application Notes	Peptide ELISA: antibody detection limit dilution 1:16000 WB: 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: 0.1-0.3ug/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: 3.75ug/ml. IF: Strong expression of the protein seen in the cytoplasm/membranes of HeLa cells. Recommended concentration: 10ug/ml. FC/FACS: Flow cytometric analysis of HEK293 cells. Recommended concentration: 10ug/ml.
Immunogen	Peptide with sequence C-ERQAVNATGHLSD, from the internal region of the protein sequence according to NP_002241.1.
Preparation and Storage	Aliquot and store at -20 degree C. Minimize freezing and thawing.



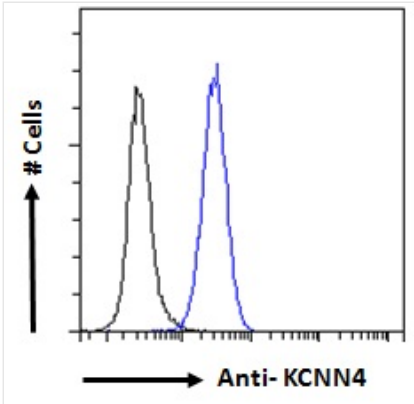
IHC (Immunohistochemistry)
3.75ug/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



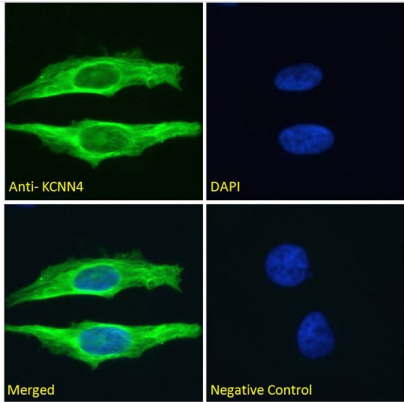
IHC (Immunohistochemistry)
3.75ug/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



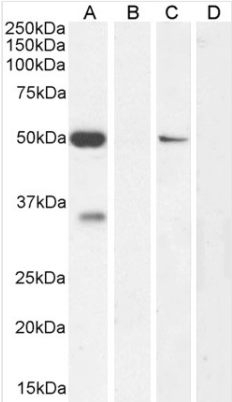
IHC (Immunohistochemistry)
3.75ug/ml) staining of paraffin embedded Human Adrenal Gland. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



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



IF (Immunofluorescence)
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 i



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

ADDITIONAL INFORMATION

References	Yamaguchi M, Nakayama T, Fu Z, Naganuma T, Sato N, Soma M, Doba N, Hinohara S, Morita A, Mizutani T.: Relationship between haplotypes of KCNN4 gene and susceptibility to human vascular diseases in Japanese. Medical science monitor: international medical journal of experimental and clinical research 2009 Aug 15 (8): CR389-97. PMID: 19644414
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504859
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NCBI GeneID	3783
NCBI Accession #	NP_002241.1
NCBI GenBank Nucleotide #	NP_002241.1
UniProt Accession #	O15554
NCBI Official Full Name	intermediate conductance calcium-activated potassium channel protein 4
NCBI Official Synonym Full Names	potassium calcium-activated channel subfamily N member 4
NCBI Official Symbol	KCNN4
NCBI Official Synonym Symbols	IK; IK1; SK4; DHS2; KCA4; hSK4; IKCA1; hKCa4; KCa3.1; hKCa1
NCBI Protein Information	intermediate conductance calcium-activated potassium channel protein 4
UniProt Protein Name	Intermediate conductance calcium-activated potassium channel protein 4
UniProt Gene Name	KCNN4
UniProt Synonym Gene Names	IK1; IKCA1; KCA4; SK4; SK4; SKCa 4; SKCa4; IK1
UniProt Entry Name	KCNN4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/goat-dog-human-mouse-rat-antibody/kcnn4-kca3-1/13678>