



[Go to Product page](#)

Datasheet for ABIN719786

anti-KCNN4 antibody (AA 325-427)

2 Images

2 Publications

Overview

Quantity:	100 µL
Target:	KCNN4
Binding Specificity:	AA 325-427
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNN4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human KCNN4
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse,Dog,Cow,Sheep,Pig,Horse,Rabbit,Guinea Pig
Purification:	Purified by Protein A.

Target Details

Target:	KCNN4
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Target Details

Alternative Name:	KCNN4 (KCNN4 Products)
Background:	<p>Synonyms: IK1, SK4, KCA4, hSK4, IKCA1, hKCa4, KCa3.1, hIKCa1, Intermediate conductance calcium-activated potassium channel protein 4, SKCa 4, SKCa4, Putative Gardos channel, KCNN4</p> <p>Background: Forms a voltage-independent potassium channel that is activated by intracellular calcium. Activation is followed by membrane hyperpolarization which promotes calcium influx. Required for maximal calcium influx and proliferation during the reactivation of naive T-cells. The channel is blocked by clotrimazole and charybdotoxin but is insensitive to apamin.</p>
Gene ID:	3783
UniProt:	O15554

Application Details

Application Notes:	<p>WB 1:300-5000</p> <p>ELISA 1:500-1000</p> <p>IHC-P 1:200-400</p> <p>IHC-F 1:100-500</p> <p>IF(IHC-P) 1:50-200</p> <p>IF(IHC-F) 1:50-200</p> <p>IF(ICC) 1:50-200</p>
Restrictions:	For Research Use only

Handling

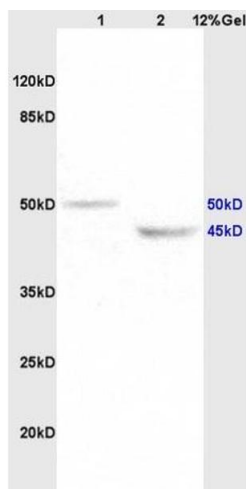
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Product cited in:

Lively, Lam, Wong, Schlichter: "Comparing Effects of Transforming Growth Factor β 1 on Microglia From Rat and Mouse: Transcriptional Profiles and Potassium Channels." in: **Frontiers in cellular neuroscience**, Vol. 12, pp. 115, (2018) ([PubMed](#)).

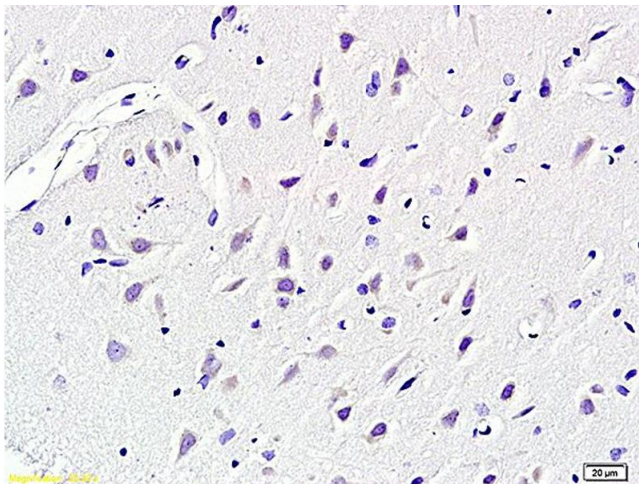
Zhang, Yang, Yin, Yi, Shen, Zhao, Zhu, Liu: "Inhibition of SK4 Potassium Channels Suppresses Cell Proliferation, Migration and the Epithelial-Mesenchymal Transition in Triple-Negative Breast Cancer Cells." in: **PLoS ONE**, Vol. 11, Issue 4, pp. e0154471, (2016) ([PubMed](#)).

Images



SDS-PAGE

Image 1. Lane 1: rat brain lysates Lane 2: rat heart lysates probed with Anti KCNN4 Polyclonal Antibody, Unconjugated (ABIN719786) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 50kD. Observed band size: 45kD, 50kD.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat brain labeled with Anti KCNN4 Polyclonal Antibody, Unconjugated (ABIN719786) at 1:200 followed by conjugation to the secondary antibody and DAB staining