10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

KCNJ13 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12387a

Specification

KCNJ13 Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	O60928
Other Accession	NP_002233.2, NP_001165887.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	40530
Antigen Region	67-95

KCNJ13 Antibody (N-term) - Additional Information

Gene ID 3769

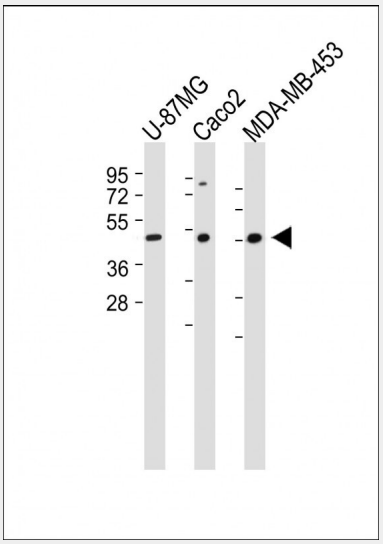
Other Names
Inward rectifier potassium channel 13, Inward rectifier K(+) channel Kir71, Potassium channel, inwardly rectifying subfamily J member 13, KCNJ13

Target/Specificity
This KCNJ13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 67-95 amino acids from the N-terminal region of human KCNJ13.

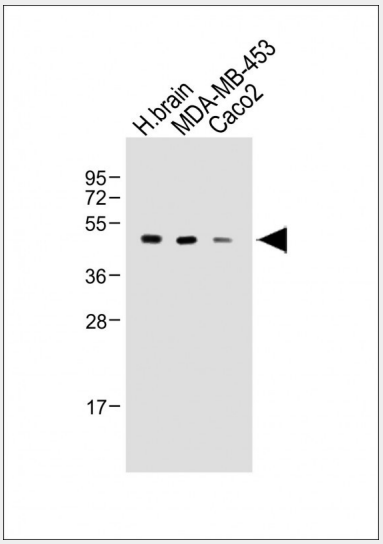
Dilution
WB~~1:2000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



All lanes : Anti-KCNJ13 Antibody (N-term) at 1:1000 dilution Lane 1: U-87 MG whole cell lysate Lane 2: Caco2 whole cell lysate Lane 3: MDA-MB-453 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 41 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-KCNJ13 Antibody (N-term) at 1:2000 dilution Lane 1: Human brain whole

Precautions
KCNJ13 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

KCNJ13 Antibody (N-term) - Protein Information

Name KCNJ13

Function
Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated by the concentration of extracellular potassium; as external potassium is raised, the voltage range of the channel opening shifts to more positive voltages. The inward rectification is mainly due to the blockage of outward current by internal magnesium. KCNJ13 has a very low single channel conductance, low sensitivity to block by external barium and cesium, and no dependence of its inward rectification properties on the internal blocking particle magnesium.

Cellular Location
Membrane; Multi-pass membrane protein.

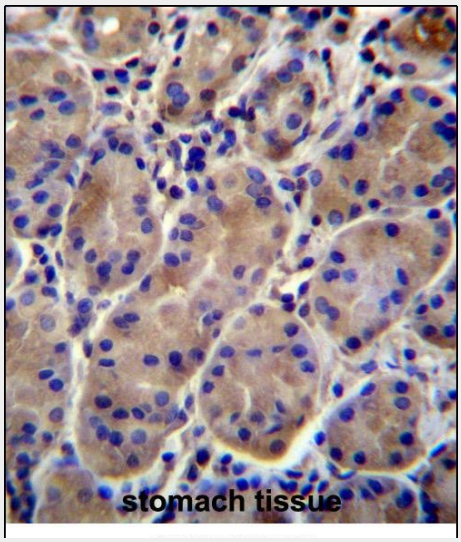
Tissue Location
Predominantly expressed in small intestine. Expression is also detected in stomach, kidney, and all central nervous system regions tested with the exception of spinal cord

KCNJ13 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

tissue lysate Lane 2: MDA-MB-453 whole cell lysate Lane 3: Caco2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 41 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



KCNJ13 Antibody (N-term) (Cat. #AP12387a)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of KCNJ13 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

KCNJ13 Antibody (N-term) - Background

This gene encodes a member of the inwardly rectifying
potassium channel family of proteins. Members of this family form
ion channel pores that allow potassium ions to pass into a cell.
The encoded protein belongs to a subfamily of low signal channel
conductance proteins that have a low dependence on potassium
concentration. Mutations in this gene are associated with snowflake
vitreoretinal degeneration. Alternate splicing results in multiple
transcript variants.

KCNJ13 Antibody (N-term) - References

Zhang, W., et al. Biochem. Biophys. Res. Commun. 377(3):981-986(2008)
Ji, W., et al. Nat. Genet. 40(5):592-599(2008)
Hughes, B.A., et al. Am. J. Physiol., Cell Physiol. 294 (2), C423-C431 (2008) :
Hejtmancik, J.F., et al. Am. J. Hum. Genet. 82(1):174-180(2008)
Yang, D., et al. Exp. Eye Res. 86(1):81-91(2008)