KIRREL2 Antibody
Cat. No.: 7971

Immunohistochemistry of KIRREL2 in human pancreas tissue with KIRREL2 antibody at 5 μg/ml.

Immunofluorescence of KIRREL2 in human pancreas tissue with KIRREL2 antibody at 20 μg/ml.

Specifications

<table>
<thead>
<tr>
<th>HOST SPECIES:</th>
<th>Rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECIES REACTIVITY:</td>
<td>Human, Mouse, Rat</td>
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<tr>
<td>IMMUNOGEN:</td>
<td>KIRREL2 antibody was raised against a 17 amino acid peptide near the carboxy terminus of human KIRREL2. The immunogen is located within amino acids 550 - 600 of KIRREL2.</td>
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<tr>
<td>TESTED APPLICATIONS:</td>
<td>ELISA, IF, IHC-P, WB</td>
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APPLICATIONS:

KIRREL2 antibody can be used for detection of KIRREL2 by Western blot at 1 - 2 μg/ml. Antibody can also be used for immunohistochemistry starting at 5 μg/mL. For immunofluorescence start at 20 μg/mL.

Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.

SPECIFICITY:

KIRREL2 antibody is human, mouse and rat reactive. At least five isoforms are known to exist. This antibody is predicted to not cross-react with other members of the KIRREL protein family.

POSITIVE CONTROL:

1) Cat. No. 1210 - HEK293 Cell Lysate
2) Cat. No. 11-101 - Human Pancreas Tissue Slide

PREDICTED MOLECULAR WEIGHT:

Predicted: 64, 70, 78 kDa
Observed: 70 kDa

Properties

PURIFICATION: KIRREL2 antibody is affinity chromatography purified via peptide column.
CLONALITY: Polyclonal
ISOTYPE: IgG
CONJUGATE: Unconjugated
PHYSICAL STATE: Liquid
BUFFER: KIRREL2 antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION: 1 mg/mL
STORAGE CONDITIONS: KIRREL2 antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year.

Additional Info

OFFICIAL SYMBOL: KIRREL2
ALTERNATE NAMES: Kin of irregular chiasm-like protein 2, Kin of IRRE-like protein 2, NEPH3, Nephrin-like protein 3, NLG1, FILTRIN
ACCESSION NO.: NP_954649
PROTEIN GI NO.: 145275174
GENE ID: 84063
USER NOTE: Optimal dilutions for each application to be determined by the researcher.

Background and References
**BACKGROUND:**

KIRREL2, also known as nephrin-like 3, is a type I transmembrane protein belonging to the immunoglobulin superfamily of cell adhesion molecules (1). KIRREL2 consists of five extracellular Ig-like repeats, a transmembrane domain, several glycosylation sites and a cytoplasmic domain that has a stretch of nine conserved residues (1,2). KIRREL2 has been found to be expressed in beta cells of pancreatic islets and is involved in the regulation of both glomerular and neural development (3,4). Downregulation of KIRREL2 is implicated in several proteinuric diseases (4,5).

**REFERENCES:**


