Human/Mouse/Rat Kirrel3/NEPH2 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG

Catalog Number: AF4910

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects Kirrel3/NEPH2 in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant human (rh) Kirrel1 and rhKirrel2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Kirrel3/NEPH2 Tyr33-Ala535 Accession # Q8IZU9
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

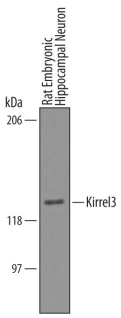
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Rat Kirrel3 by Western Blot. Western blot shows lysates of rat embryonic hippocampal neuron. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human/Mouse/Rat Kirrel3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4910) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Kirrel3 at approximately 120 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Kirrel3 (Kin of IRRE-like protein 3 precursor; also NEPH2) is a 95-120 kDa member of a small family of podocin binding molecules. Kirrel3 is found on podocytes and olfactory sensory neurons and likely plays a role in cellular adhesion. Kirrel3 is 778 amino acids in length. It is a type I transmembrane (TM) glycoprotein that contains a 514 aa extracellular region (aa 22-535) with five C2 type Ig like domains (aa 48-515) plus a 222 aa cytoplasmic tail. Kirrel3 binds itself as well as nephrin, podocin and ZO-1. Kirrel3 is shed by MMPs, generating a soluble urinary fragment that is 25 kDa smaller than the TM form. Two variant isoforms exist. One has an alternate start site at Met34, while the second shows a 35 aa substitution for aa 566-778. Over aa 1-535, human Kirrel3 is 98% aa identical to mouse Kirrel3.

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