

DESCRIPTION

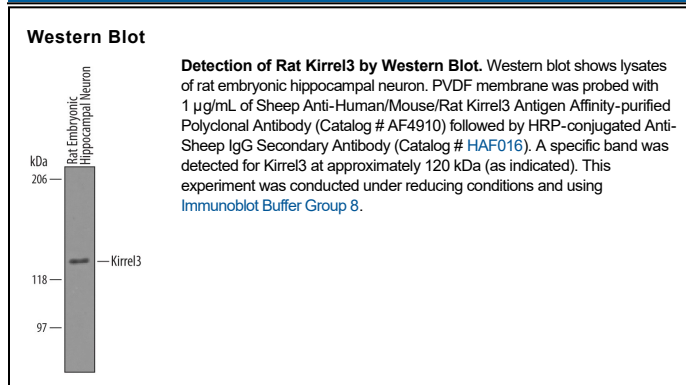
Species Reactivity	Human/Mouse/Rat
Specificity	Detects Kirrel3/NEPH2 in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant human (rh) Kirrel1 and rhKirrel2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma 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



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. <ul style="list-style-type: none"> • 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.