

DESCRIPTION

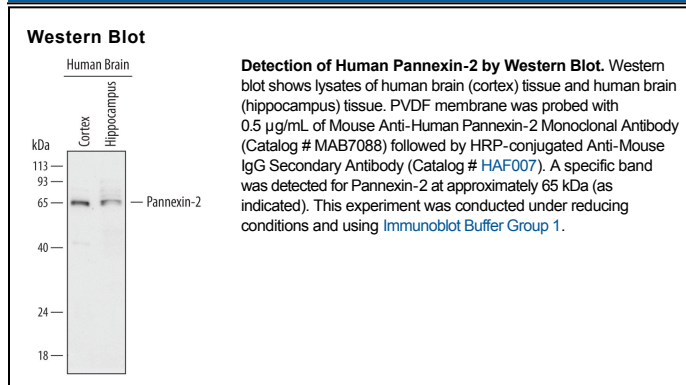
Species Reactivity	Human
Specificity	Detects human Pannexin-2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human (rh) Pannexin-1 and no cross-reactivity with rhPannexin-3 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 719406
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Pannexin-2 Arg316-Lys456 Accession # Q96RD6
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 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	0.5 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

Pannexin 2 (PANX2) is a ~60 kDa, 677 amino acid (aa) protein of the pannexin family of four-transmembrane channel proteins with a conserved pattern of cysteines. PANX2 can interact with PANX1. It is mainly expressed on postnatal neural progenitors and is thought to inhibit the rate of neuronal differentiation. PANX2 expression is positively correlated with survival following glioma diagnosis, and it negatively regulates glioma cell line growth. Polymorphisms of PANX2 are associated with bipolar disorder and schizophrenia. Within aa 316-456, human PANX2 shares 96% aa sequence identity with mouse and rat PANX2. A 643 aa isoform diverges after aa 631, while a 509 aa isoform also shows an alternate start site at aa 135.