

DESCRIPTION

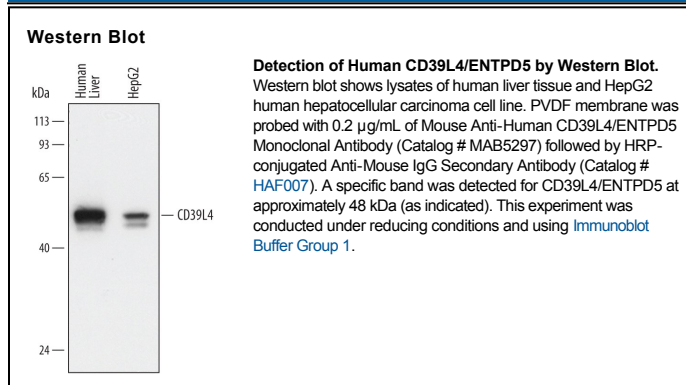
Species Reactivity	Human
Specificity	Detects human CD39L4/ENTPD5 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) CD39, rhCD39L1, or rhCD39L3 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 743512
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human CD39L4/ENTPD5 Val21-His428 Accession # O75356
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	0.2 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

CD39L4, also called ENTPD5 (ectonucleoside triphosphate diphosphohydrolase 5), ER-UDPase and PCPH, is a secreted, 45-51 kDa class II member of the GDA1/CD39 NTPase family of molecules. It is expressed by multiple cell types, including neurons, cardiomyocytes, and hepatocytes. CD39L4 is a divalent cation-dependent enzyme that preferentially hydrolyzes GDP and UDP. In the ER, this enzyme may remove UDP which interferes with proper protein folding and maturation. Extracellularly, CD39L4 may reduce available UDP ligand for P2Y receptors. Mature human CD39L4 is a 408 amino acid (aa) glycoprotein (aa 21-428). It contains four APR (apyrase conserved regions) (aa 54-206) that participate in NTPase activity. CD39L4 has been reported to exist as both monomer and homodimer. Three potential splice variants are reported. One shows a seven aa substitution for aa 401-428, a second contains a five aa substitution for aa 401-428, and a third possesses a 22 aa substitution for aa 215-428. Over aa 21-428, human CD39L4 shares 89% aa sequence identity with mouse CD39L4.