Human CLEC3B/Tetranectin Antibody

Monoclonal Mouse IgG_{2B} Clone # 805035

Catalog Number: MAB5170

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CLEC3B/Tetranectin in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 805035
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CLEC3B/Tetranectin Glu22-Val202 Accession # P05452
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
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.

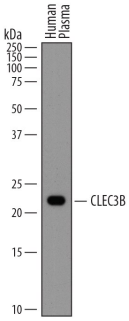
APPLICATIONS

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
Blockade of Receptor-ligand Interaction	µg/mL	In a functional ELISA, 5-25 µg/mL of this antibody will block 50% of the binding of 10 µg/mL of Recombinant Human CLEC3B to immobilized Recombinant Human HGF coated at 5 µg/mL (100 µL/well). At 50 µg/mL, this antibody will block >90% of the binding
Simple Western	5 µg/mL	See Below

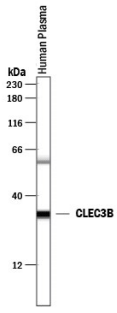
DATA

Western Blot



Detection of Human CLEC3B/Tetranectin by Western Blot. Western blot shows human plasma. PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Human CLEC3B/Tetranectin Monoclonal Antibody (Catalog # MAB5170) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for CLEC3B/Tetranectin at approximately 22 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western



Detection of Human CLEC3B/Tetranectin by Simple Western™. Simple Western lane view shows human plasma, loaded at 0.5 mg/mL. Specific bands were detected for CLEC3B/Tetranectin at approximately 32 kDa (as indicated) using 5 µg/mL of Mouse Anti-Human CLEC3B/Tetranectin Monoclonal Antibody (Catalog # MAB5170). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

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.** ● 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

CLEC3B (C-type lectin domain family 3-member B; also Tetranectin) is a 20 kDa, secreted member of the C type lectin superfamily. It is produced by multiple cell types including monocytes, neutrophils, fibroblasts, hepatocytes and various endocrine cells. Although named Tetranectin, CLEC3B is actually a nondisulfide linked homotrimer. It binds to plasminogen, sulfated polysaccharides, and fibrin. Human CLEC3B precursor is 202 amino acids (aa) in length. It contains a signal sequence (aa 1-21), a coiled coil region that mediates trimerization (aa 26-52) and a C type lectin domain (aa 77-198). CLEC3B contains O-linked glycosylation. Mature human CLEC3B is 81% aa identical to mouse CLEC3B.

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