Human TEM8/ANTXR1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 371113

Catalog Number: MAB3886

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TEM8/ANTXR1 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 371113
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human TEM8/ANTXR1 isoform 1 Gln28-Gly320 Accession # Q9H6X2
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	1 µg/mL	Recombinant Human TEM8/ANTXR1

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

Tumor Endothelial Marker 8 (TEM8), also called ATR1 and ANTXR1, is a glycoprotein of the anthrax toxin receptor family that is expressed by endothelial cells. Type I transmembrane isoforms of 564 aa (80-85 kDa) and 368 aa (60 kDa) and potentially secreted isoforms of 330 aa and 297 aa (45 kDa) are differentially expressed. All diverge at the C-terminal end but share the N-terminal vWFA domain that binds the anthrax toxin PA subunit as well as collagens I and IV. Human TEM8 shares 99% aa identity with mouse and rat and 92% identity with dog and chick TEM8 within the extracellular domain.