SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-TEM8 antibody

Catalog Number: SL15583R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	TEM8
Immunogen:	KLH conjugated synthetic peptide derived from human TEM8: 201-300/564 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, (predicted: Rat, Rabbit)
Predicted MW.:	63kDa
Subcellular Location:	The cell membrane
Background:	This gene encodes a type I transmembrane protein and is a tumor-specific endothelial marker that has been implicated in colorectal cancer. The encoded protein has been shown to also be a docking protein or receptor for Bacillus anthracis toxin, the causative agent of the disease, anthrax. The binding of the protective antigen (PA) component, of the tripartite anthrax toxin, to this receptor protein mediates delivery of toxin components to the cytosol of cells. Once inside the cell, the other two components of anthrax toxin, edema factor (EF) and lethal factor (LF) disrupt normal cellular processes. Three alternatively spliced variants that encode different protein isoforms have been described. [provided by RefSeq, Oct 2008] **Function:** Plays a role in cell attachment and migration. Interacts with

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	extracellular matrix proteins and with the actin cytoskeleton. Mediates adhesion of cells to type 1 collagen and gelatin, reorganization of the actin cytoskeleton and promotes cell spreading. Plays a role in the angiogenic response of cultured umbilical vein endothelial cells. **Subunit:** Interacts with gelatin and type 1 collagen. Interacts with the actin cytoskeleton. Binds to the protective antigen (PA) of Bacillus anthracis. Binding does not occur in the presence of calcium. **Subcellular Location:** Cell membrane; Single-pass type I membrane protein. Cell projection, lamellipodium membrane; Single-pass type I membrane protein. Cell projection, filopodium membrane; Single-pass type I membrane protein. Note=At the membrane of lamellipodia and at the tip of actin-enriched filopodia. Colocalizes with actin at the base of lamellipodia. **Tissue Specificity:** Detected in umbilical vein endothelial cells (at protein level). Highly expressed in tumor endothelial cells. DISEASE: Defects in ANTXR1 are associated with susceptibility to hemangioma capillary infantile (HCI) [MIM:602089]. HCI are benign, highly proliferative lesions involving aberrant localized growth of capillary endothelium. They are the most common tumor of infancy, occurring in up to 10% of all births. Hemangiomas tend to appear shortly after birth and show rapid neonatal growth for up to 12 months characterized by endothelial hypercellularity and increased numbers of mast cells. This phase is followed by slow involution at a rate of about 10% per year and replacement by fibrofatty stroma **Similarity:** Belongs to the ATR family. Contains 1 VWFA domain. **Database links:** **Entrez Gene:** 84168 Human **Entrez Gene:** 69538 Mouse **Entrez Gene:** 362393 Rat Omim: 606410 Human **SwissProt:** Q9H6X2 Human **SwissProt:** Q9CZ52 Mouse **SwissProt:** Q0PMD2 Rat **Unigene:** 165859 Human **Unigene:** 232525 Mouse **Unigene:** 41192 Rat

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[VALIDATION IMAGES]

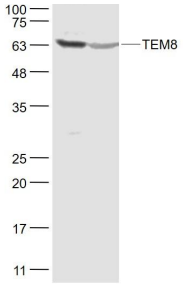


Figure 1. Sample: Siha(Human) Cell Lysate at 30 ug Uterus (Mouse) Lysate at 40 ug Primary: Anti- TEM8 (SL15583R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 63 kD Observed band size: 63 kD

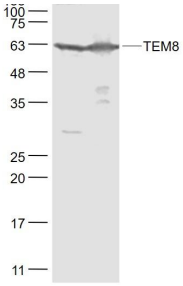


Figure 2. Sample: HepG2(Human) Cell Lysate at 30 ug K562(Human) Cell Lysate at 30 ug Primary: Anti- TEM8 (SL15583R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 63 kD Observed band size: 63 kD

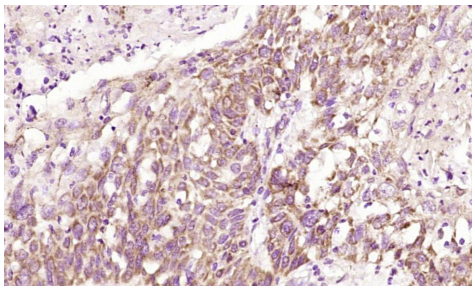


Figure 3. Paraformaldehyde-fixed, paraffin embedded (Human esophageal cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TEM8) Polyclonal Antibody, Unconjugated (SL15583R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

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