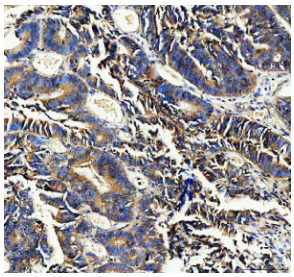
TEM8 Antibody / Tumor Endothelial Marker Antibody (RQ6934)

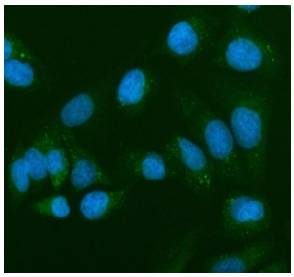
Catalog No.	Formulation	Size
RQ6934	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

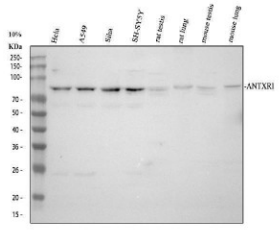
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9H6X2
Applications	Western Blot : 0.5-1 ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This TEM8 Antibody / Tumor Endothelial Marker Antibody is available for research use only.



TEM8 Antibody Human Colon Cancer IHC. Immunohistochemical analysis of TEM8 Antibody / Tumor Endothelial Marker Antibody in FFPE human colon cancer tissue following heat-induced antigen retrieval in pH 8 EDTA buffer. The section was incubated with TEM8 antibody at 2 ug/ml and detected using an HRP-conjugated secondary antibody with DAB chromogen. Positive staining is observed in colon cancer cells, consistent with ANTXR1 expression. This TEM8 Antibody, a tumor endothelial marker antibody, is suitable for investigating receptor expression, tumor angiogenesis and cancer-associated endothelial biology.



TEM8 Antibody U2OS Cell IF. Immunofluorescence analysis of TEM8 Antibody / Tumor Endothelial Marker Antibody in U2OS cells following enzyme antigen retrieval. Cells were incubated with TEM8 antibody at 5 ug/ml and detected with a Fluoro488-conjugated secondary antibody (green), while nuclei were counterstained with DAPI (blue). The staining demonstrates punctate cytoplasmic and membrane-associated ANTXR1 expression. This TEM8 Antibody, a tumor endothelial marker antibody, is suitable for investigating receptor localization, tumor angiogenesis and extracellular matrix biology.



TEM8 Antibody Human, Rat and Mouse WB. Western blot analysis of TEM8 Antibody / Tumor Endothelial Marker Antibody detected a major band at approximately 80 kDa, consistent with the reported migration of glycosylated ANTXR1 despite a predicted molecular weight of 63 kDa. Lane 1: human HeLa; Lane 2: human A549; Lane 3: human SiHa; Lane 4: human SH-SY5Y; Lane 5: rat testis; Lane 6: rat lung; Lane 7: mouse testis; Lane 8: mouse lung lysate. The membrane was incubated with TEM8 antibody at 0.5 ug/ml followed by an HRP-conjugated secondary antibody. This TEM8 Antibody, a tumor endothelial marker antibody, detects endogenous ANTXR1 across human, rat and mouse samples.

Description

TEM8 Antibody / Tumor Endothelial Marker Antibody recognizes Tumor Endothelial Marker 8 (TEM8), also known as Anthrax Toxin Receptor 1 (ANTXR1), a type I transmembrane glycoprotein involved in extracellular matrix interactions, angiogenesis and tissue remodeling. Initially identified because of its elevated expression in tumor-associated endothelial cells, TEM8 has since been found in a variety of normal tissues where it contributes to cell adhesion, migration and communication with the surrounding extracellular matrix. The receptor binds collagen and other matrix proteins, helping regulate cellular architecture and tissue homeostasis. NSJ Bioreagents provides TEM8 antibodies for researchers investigating vascular biology, tumor progression and receptor-mediated signaling.

TEM8 has attracted considerable interest in oncology because its expression is frequently elevated in the vasculature of solid tumors and in several malignant cell types. Studies suggest that TEM8 contributes to tumor growth by supporting angiogenesis, extracellular matrix remodeling and interactions between tumor cells and their microenvironment. In addition to its role in cancer biology, TEM8 participates in normal developmental processes, wound healing and connective tissue maintenance. The receptor is also recognized for serving as a cellular entry receptor for anthrax protective antigen, making it an important subject in infectious disease research as well as cancer biology.

Current research focuses on understanding how TEM8 regulates endothelial cell behavior, vascular integrity and matrix organization. Investigators also examine its potential as a therapeutic target for anti-angiogenic strategies and antibody-based cancer treatments. Characterizing TEM8 expression can provide valuable insight into tumor vascularization, extracellular matrix dynamics and mechanisms that influence tissue remodeling and disease progression. Continued study of this receptor has expanded understanding of both normal vascular physiology and pathological angiogenesis.

An TEM8 Antibody is a valuable reagent for detecting this tumor endothelial marker by Western blotting, immunohistochemistry, immunofluorescence, flow cytometry and related immunoassays. By enabling reliable analysis of receptor expression and localization, an TEM8 Antibody supports investigations into tumor angiogenesis, extracellular matrix biology and endothelial cell function.

Researchers studying vascular biology may also be interested in our Angiogenesis Antibodies page, featuring antibodies against endothelial markers, angiogenic regulators and vascular signaling proteins.

Application Notes

Optimal dilution of the TEM8 Antibody / Tumor Endothelial Marker Antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids E33-D301) was used as the immunogen for the TEM8 antibody.

Storage

After reconstitution, the TEM8 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

TEM8 antibody, Tumor Endothelial Marker 8 antibody, ANTXR1 antibody, Anthrax Toxin Receptor 1 antibody, ATR antibody, Anthrax Toxin Receptor antibody

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