

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Endosialin/CD248 in direct ELISAs. In direct ELISAs, less than 10% cross-reactivity with recombinant human Endosialin/CD248 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 458606
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Endosialin/CD248 Val13-Arg693 (predicted) Accession # Q91V98
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Endosialin, also known as CD248 and tumor endothelial marker 1 (Tem1), is a 165 kDa transmembrane O-glycosylated protein that contains one C-type lectin, one Sushi, one EGF-like domain and a mucin-like stalk in its extracellular domain (ECD). It is expressed on activated perivascular and stromal cells in embryonic and tumor neovasculature but is downregulated in quiescent vasculature. Endosialin regulates pericyte proliferation, migration, and adhesion to matrix Fibronectin and Collagens I and IV. It is also required for lymph node and spleen remodeling during immune responses. Within the ECD, mouse Endosialin shares 76% and 93% aa sequence identity with human and rat Endosialin, respectively.

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