

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse SCARA5 in direct ELISAs. In direct ELISAs, 100% cross-reactivity with recombinant human SCARA5 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 462002
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse SCARA5 Arg83-Pro491 Accession # Q8K299
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

Immunohistochemistry 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

Scavenger receptor A5 (SCARA5; also known as testis expressed scavenger receptor Tesr) is a Class A scavenger receptor that is related to CL-P1, MARCO, SCARA3, and SR-A1. All are type II transmembrane proteins that contain a collagenous stalk (1-3). Mature mouse SCARA5 consists of a 60 amino acid (aa) cytoplasmic domain, a 21 aa transmembrane segment, and a 410 aa C-terminal extracellular domain (ECD) that contains a coiled-coil, a collagen-like, and a scavenger receptor cysteine-rich (SRCR) region (4, 5). Within the ECD, mouse SCARA5 shares 87% and 98% aa sequence identity with human and rat SCARA5, respectively. It shares 24%-29% aa sequence identity with CL-P1, MARCO, SCARA3, and SR-A1. Alternative splicing generates one isoform that lacks the SRCR domain and a second that additionally lacks the cytoplasmic and transmembrane regions. SCARA5 is a cell surface disulfide-linked homotrimer of > 250 kDa (5). It is highly expressed in testicular Sertoli and germ cells and more weakly in the epithelia of other tissues (4, 5). During mouse development, SCARA5 expression is attenuated in female embryos at the time of sex determination, whereas it is maintained in the developing testis (4). SCARA5 is re-expressed in the adult ovary (4). SCARA5 binds heat-killed bacterial particles but not yeast particles or modified LDL (5).

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