

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse SCARA5 in direct ELISAs. In direct ELISAs, 100% cross-reactivity with recombinant human SCARA5 is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 462002
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse SCARA5 Arg83-Pro491 Accession # Q8K299
<b>Formulation</b>	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.

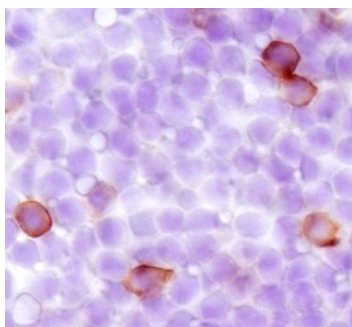
**APPLICATIONS**

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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below

**DATA**

**Immunohistochemistry**



**SCARA5 in Mouse Spleen.** SCARA5 was detected in immersion fixed frozen sections of mouse spleen using 25 µg/mL Mouse SCARA5 Monoclonal Antibody (Catalog # MAB4754) overnight at 4 °C. Tissue was stained with the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**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).

**References:**

1. Murphy, J.E. *et al.* (2005) *Atherosclerosis* **182**:1.
2. Mukhopadhyay, S. And S. Gordon (2004) *Immunobiology* **209**:39.
3. Sarrias, M.R. *et al.* (2004) *Crit. Rev. Immunol.* **24**:1.
4. Sarraj, M.A. *et al.* (2002) *Dev. Dyn.* **234**:1026.
5. Jiang, Y. *et al.* (2006) *J. Biol. Chem.* **281**:11834.