

#### DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CD24a in direct ELISAs.
<b>Source</b>	Recombinant Monoclonal Rat IgG <sub>2A</sub> Clone # 910019
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	Peptide sequence spanning a portion of the extracellular region Accession # P24807
<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>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

#### DATA

<p><b>Flow Cytometry</b></p> <p><b>Detection of CD24 in Mouse Splenocytes by Flow Cytometry.</b> Mouse splenocytes were stained with Rat Anti-Mouse B220/CD45R PE-conjugated Monoclonal Antibody (Catalog # <a href="#">FAB1217P</a>) and either (A) Rat Anti-Mouse CD24 Monoclonal Antibody (Catalog # <a href="#">MAB8547</a>) or (B) Rat IgG<sub>2A</sub> Isotype Control (Catalog # <a href="#">MAB006</a>) followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # <a href="#">F0113</a>).</p>	<p><b>Immunohistochemistry</b></p> <p><b>CD24 in Mouse Stomach.</b> CD24 was detected in immersion fixed paraffin-embedded sections of mouse stomach using Rat Anti-Mouse CD24 Monoclonal Antibody (Catalog # <a href="#">MAB8547</a>) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # <a href="#">CTS017</a>) and counterstained with hematoxylin (blue). Specific staining was localized to parietal cells in gastric glands. View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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#### 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

CD24, also known as Heat Stable Antigen (HSA), is a heavily and variably glycosylated 35-60 kDa GPI-linked sialoprotein. CD24 is expressed on B cells, T cells, keratinocytes, and myofiber synaptic nuclei and is upregulated in a wide variety of cancers. It is also a marker for exosomes released into the urine and amniotic fluid. CD24 binds to P-Selectin on activated platelets and vascular endothelial cells. CD24 ligation induces tumor cell apoptosis and is important for the deletion of autoreactive T cells. Mature mouse CD24 shares 30% aa sequence identity with human CD24.