

Rat monoclonal anti mouse CD54 (ICAM-1) **(Azide-free & Low endotoxin)**

ORDERING INFORMATION

Catalog Number:	gAP-0016
Size:	1.00 mg
Storage:	< -20° C
Immunogen:	Mouse myeloma cells
Ig Type:	Rat IgG2
Clone	AP-MAB0823
Endotoxin Level	< 0.002EU/μg IgG*
Applications:	FC, IP and blocking

Description: CD54 is a 90 kD immunoglobulin superfamily member, also known as ICAM-1 and Ly-47. It is expressed on activated endothelial cells, high endothelial venules (HEV), T and B cells, monocytes/macrophages, granulocytes, and dendritic cells. CD54 is an important intracellular adhesion molecule that participates in T cell-T cell, T cell-B cell, and T cell-target cell interactions via binding of LFA-1 (CD11a/CD18) and Mac-1 (CD11b/CD18). CD54 has also been shown to be involved in lymphocyte trafficking, making it an important molecule in many immune reactions and inflammation. CD54 is also a receptor for rhinovirus.

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat immunized with Mouse myeloma cells)

Formulation: The IgG fraction of **culture supernatant** was purified by Protein A/G affinity chromatography and lyophilized from a 0.2 μm filtered solution in phosphate-buffered saline (PBS, **Azide Free**).

Reconstitution: Reconstitute the antibody with sterile PBS and the reconstituted antibody can be aliquoted and stored frozen at < -20 for at least for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C.

***Endotoxin Level:** Extremely low level of LPS (< 0.002EU/μg IgG)

Application(s):

- 1. FC and IP**
- 2. Blocking CD54 binding to LFA-1 and Mac-1**

*** The antibody is produced by in vitro culture and for Research Use Only.**