Anti-Mouse LPAM-1 (#2G18)

20150126ML

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	**103-M176**
Size:	200 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat) immunized with cell lysates of mouse lymphocytes. IgG2 fraction of the culture supernatant was purified by Protein A/G affinity chromatography.

Target Background

Synonyms (Target):	LPAM-1

The antibody is specific for a combinatorial determinate of integrin α4β7complex. Integrin α4β7 is composed of a 150 kD (α4 or CD49d) and a 130 kD (β7) heterodimer, also known as CD49d/β7 or LPAM-1. Belonging to the Ig superfamily, it is found on the majority of peripheral lymphocytes and subsets of thymocytes and bone marrow cells (including mast cell progenitors). Integrin α4β7 binds its ligands, VCAM-1 (CD106), MAdCAM-1 and fibronectin, and plays an important role in lymphocytes adhesion and the direction of migration of blood lymphocytes to the intestine and associated lymphoid tissues.

Database References Target

Protein RefSeq:	NP_038594.2
Uniprot ID:	P26011
mRNA RefSeq:	NM_013566.2

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#2G18)
Isotype	IgG2
Purification	Protein A/G chromatography
Antigen	cell lysates of mouse lymphocytes
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 400 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody was selected for its ability to detect mouse CD45 positive leukocytes in ICH.

AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

The antibody can be used within the following applications:

IHC (P), FC, IP

Recommended usage:

Flow cytometry: 1:50 - 1:200

IP: 1:100 - 1:400

IHC (paraffine): 1:100 - 1:200

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!

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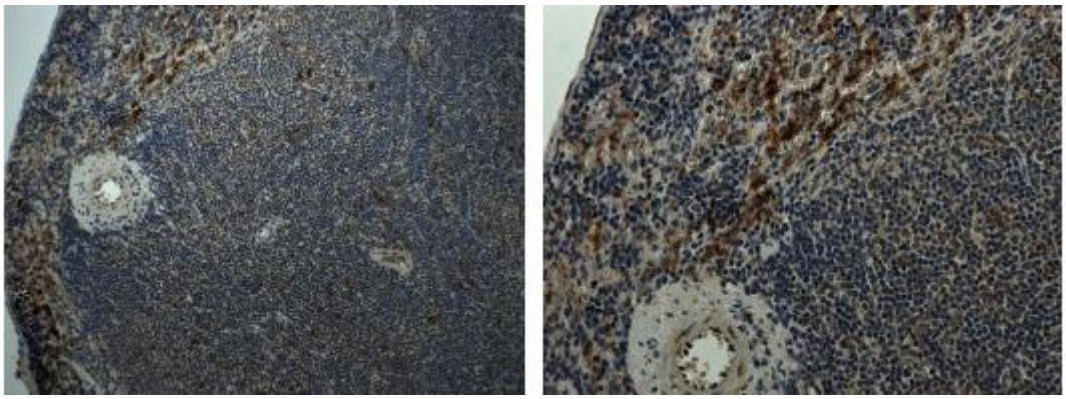
Application/Handling



LPAM-1 immunohistochemistry staining of paraffin sections of mouse spleen from LPS exposed animals.