

PRODUCT INFORMATION SUMMARY

ANTI-ICAM-Receptor (CD18)

MA170020	Purified	0.1	mg
MA170030	FITC	100	Tests
MA170070	Phycoerythrin	100	Tests
MA170035	FITC	50	Tests
MA170075	Phycoerythrin	50	Tests

ANTIGEN DISTRIBUTION AND SPECIFICITY:

The CD18 antigen is a 95 kDa integral membrane glycoprotein and is non-covalently linked to CD11a, CD11b, and CD11c molecules. This antigen is the Beta₂ chain of the LFA-1 family (Beta-2 Integrin). Also designated InterCellular Adhesion Molecule (ICAM-1) receptor, it is expressed on most leukocytes and absent on platelets. A genetic defect in the CD18 gene is thought to be a cause of Leukocyte Adhesion Deficiency (LAD).

CLONE:

ANTIGENIX AMERICA clone M48

Immunoglobulin chain composition: Mouse IgG1

CONJUGATION:

Fluorescein isothiocyanate; R-Phycoerythrin.

HANDLING AND STORAGE:

All forms are supplied as 1.0 mL of liquid (0.5 mL for 50-test version). Fluorochromes should be protected from prolonged exposure to light. Reagents will be in a medium containing 0.01M phosphate-buffered saline, pH 7.4, 0.2% gelatin and 0.1% sodium azide. These preparations should be diluted in a protein-containing or other stabilizing medium to a concentration suitable for use in specific protocols. All reagents in a liquid state should be stored at 2-8° C when not in use.

PRODUCT USE:

Use **10 uL per test** to stain no more than one million cells.;
For immuno-histochemistry, purified Anti-CD18 should be diluted,
using enough reagent to cover the tissue section or cytoprep.

RESEARCH APPLICATIONS:

Immunohistolgy (cryostst sections)

Studies of cell adhesion involving LFA-I (CD11/CD18 complex).

Studies of cellular interactions in the vasculature and LAD.
This antibody will block cell-cell interactions.

Western blot

CAUTION:

Reagents contain sodium azide, a preservative which may react
with lead joints in copper drain lines to form explosive
compounds. Even though reagents contain minute quantities of
sodium azide, drains should be thoroughly flushed with water
when reagents are discarded.

REFERENCE: Stefanova I., and Horejsi, V.; J. Immunology; 5;
(1991); 1587-1592.

WARRANTY:

Products sold hereunder are warranted only to conform to the
quantity and contents stated on the label at the time of
delivery to the customer. There are no warranties, expressed or
implied, which extend beyond the description on the label of the
product.

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**FOR RESEARCH USE ONLY. NOT INTENDED FOR THERAPEUTIC OR
DIAGNOSTIC USE.**