

Polyclonal Antibody to PTPROa - Aff - Purified

Catalog No.: 15-288-21480

Quantity: 0.1 mg

Concentration: 0.2 mg/ml

Background: CD15 is a carbohydrate antigen expressed mainly on mature granulocytes and monocytes. CD15 is also called Lewis X, X-hapten, lacto-N-fucopentaose III or stage-specific embryonic antigen (SSEA). The reactivity is preferentially with granulocytes and to a lesser degree with monocytes. CD15 is expressed on immature bone marrow cells and leukemic cells of the myelo-monocytic lineage, and sometimes on lymphocytic leukemia cells. VIM-C6 facilitates the differentiation of granulocytes from other blood cells. It is also useful for phenotyping cell subpopulations in myeloid leukemias and for enrichment or elimination of myeloid cells. This antibody reacts with granulocytes, monoblastoid precursor cells.

Host / Isotype: Chicken

Immunogen: Human granulocytes.

Format: **State:** Lyophilized purified Ig fraction.
Purification: Affinity chromatography.
Buffer System: PBS buffer pH 7.2 with 0.02% sodium azide as preservative and 10 mg/ml BSA as stabilizer.
Reconstitution: Restore with 0.5 ml distilled water.

Applications: ELISA.
Immunohistochemistry on frozen sections: 1 µg/ml (1:200) for tissue staining.
Antigen Distribution:
Isolated cells: VIM-C6 is heterogenously expressed on granulocytes and on monoblastoid precursor cells.
Tissue sections: VIM-C6 is positive on myeloid precursor cells in the bone marrow. Cross reactions with glandular epithelial cells, astrocytes and Sternberg-Reed cells were reported for CD 15.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: The antibody is directly cytotoxic with rabbit complement.
VIM-C6 detects a carbohydrate sequence of the 3-fucosyl-N-acetyllactosamine.
Species: Human: granulocytes, monocytes.
Others not tested.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Storage:

Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer.
Do not freeze working dilutions
Avoid repeated freezing and thawing.
Shelf life: One year from despatch.

General References:

1. Stockinger, H. et. al.: Exposure by desialylation of myeloid antigens on acute lymphoblastic leukemia cells. J. Natl. Cancer Inst. 73: 7-11. (1984)
2. CD 15 workshop in "Leucocyte Typing IV", (Vienna 1989), Oxford University Press, (W. Knapp, B. Doeken, W.R. Gilks, E.P. Riebar, R.E. Schmidt, H. Stein & A.E.G.Kr. von dem Borne eds).

Protocols:

Protocol with frozen, ice-cold acetone-fixed sections:

The whole procedure is performed at room temperature

1. Wash in PBS
2. Block endogenous peroxidase
3. Wash in PBS
4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
6. Wash in PBS
7. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber
8. Wash in PBS
9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
10. Wash in PBS
11. Counterstain with Mayer's hemalum

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