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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
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Purified Mouse Anti-Human CD34 Monoclonal Antibody

CLX41AP

Lot:

Clone: 4H11[APG]

Isotype: Mouse IgG1

Specificity: The antibody 4H11[APG] reacts with Class III epitope on CD34 Mucosialin), a 110-115 kDa monomeric transmembrane phosphoglycoprotein expressed on hematopoietic progenitors cells and on the most pluripotential stem cells; it is gradually lost on progenitor cells. The antibody 4H11[APG] completely blocks binding of Class II antibody QBEnd10 and Class III antibodies BIRMA K3 and 8G12 on KG1a cell line.

HLDA VI; WS Code M MA58

Immunogen: Permanent human cell line derived from peripheral leucocytes of a patient suffering from chronic myeloid leukaemia.

Species Human

Reactivity:

Application: **Flow Cytometry**

Recommended dilution: 2 µg/ml

Western Blotting

Recommended dilution: 2 µg/ml

Positive control: Kg-1a human leukemia cell lysate

Negative control: JURKAT human leukemia T-cell line

Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing SDS-PAGE sample buffer.

Application note: Non-reducing conditions.

Immunohistochemistry (paraffin sections)

Recommended dilution: 10 µg/ml

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Positive tissue: placenta endothelium

Immunocytochemistry

Purity: > 95% (by SDS-PAGE)

Purification: Purified from ascites by precipitation methods.

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Background: **CD34** is a highly glycosylated monomeric 111-115 kDa surface protein, which is present on many stem cell populations. It is a well established stem cell marker, though its expression on human hematopoietic stem cells is reversible. CD34 probably serves as a surface receptor that undergoes receptor-mediated endocytosis and regulates adhesion, differentiation and proliferation of hematopoietic stem cells and other progenitors. CD34 expression is likely to represent a specific state of hematopoietic development that may have altered adhering properties with expanding and differentiating capabilities in both in vitro and in vivo conditions.

- References:**
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Laboratory Reagent For Research Use Only