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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Purified Mouse anti-Human CD20 Monoclonal Antibody

CLX31AP
Lot:

Size:	0.1 mg
Clone:	LT20
Isotype:	Mouse IgG2a
Specificity:	The antibody LT20 reacts with CD20 (Bp35), a 33-37 kDa non-glycosylated membrane receptor with four transmembrane domains, expressed on B lymphocytes (it is lost on plasma cells), follicular dendritic cells, and at low levels on peripheral blood T lymphocytes.
Immunogen:	Normal human lymphocytes from lymph node.
Species Reactivity:	Human
Application:	Flow Cytometry
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified from ascites by precipitation methods and ion exchange chromatography.
Concentration:	1 mg/ml
Storage Buffer:	The reagent is provided in phosphate buffered saline (PBS) containing 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8^{o}C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20^{o}C. Avoid freeze/thaw cycles.

Continued…

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Background:

CD20 is a cell surface 33-37 (depending on the degree of phosphorylation) kDa non-glycosylated surface phosphoprotein expressed on mature and most malignant B cells, but not stem cells or plasma cells (low number of the CD20 has been also detected on a subpopulation of T lymphocytes and it can be expressed on follicular dendritic cells). Its expression on B cells is synchronous with the expression of surface IgM. CD20 regulates transmembrane calcium conductance (probably functioning as a component of store-operated calcium channel), cell cycle progression and B-cell proliferation. It is associated with lipid rafts, but the intensity of this association depends on extracellular triggering, employing CD20 conformational change and/or BCR (B cell antigen receptor) aggregation. After the receptor ligation, BCR and CD20 co-localize and then rapidly dissociate before BCR endocytosis, whereas CD20 remains at the cell surface. CD20 serves as a useful target for antibody-mediated therapeutic depletion of B cells, as it is expressed at high levels on most B-cell malignancies, but does not become internalized or shed from the plasma membrane following mAb treatment.

References:

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Laboratory Reagent For Research Use Only

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