

CD5 monoclonal antibody

Catalog: MB66113

Host: Mouse

Reactivity: Human

Background:

CD5 is a type-I transmembrane protein belonging to the scavenger receptor cysteine-rich (SRCR) family, characterized by the presence of at least one SRCR domain of 90-110 amino acids. CD5 is expressed by all mature T cells, the B-1a subset of mature B cells, and some leukemic B cells. Its expression is increased in regulatory T and B cells (Tregs/Bregs). Anergic T and B cells also have elevated CD5 expression. Elevated levels of CD5 are also found in many autoimmune disorders. CD5 is associated with the T cell receptor (TCR) and negatively modulates T cell activation and differentiation. CD5 expression on the tumor infiltrating T lymphocytes is inversely correlated with their antitumor activity. Recently, it was reported that CD5 directly binds to IL6 and can mediate downstream signaling. CD5+ B cells promote tumor growth in animal models. Reagents targeting CD5 have been actively pursued as therapeutic interventions for cancer and other conditions.

Product:

Mouse IgG. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.

Molecular Weight:

~ 54 kDa

Swiss-Prot:

P06127

Purification&Purity:

The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

IHC (1/100 - 1/300)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

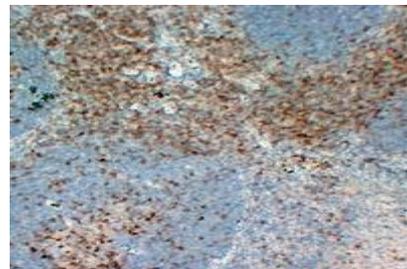
Specificity:

Recognizes endogenous levels of CD5 protein.

DATA:



Immunohistochemical analysis of CD5 staining in human classical Hodgkin's lymphoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunohistochemical analysis of CD5 staining in human tonsil formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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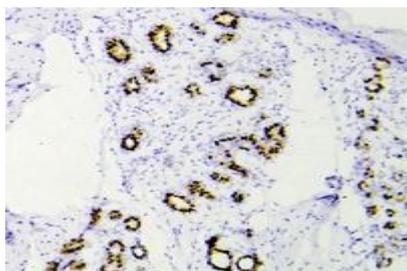
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Immunohistochemical analysis of CD5 staining in human breast carcinoma formalin fixed paraffin embedded tissue section.

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Note:

For research use only, not for use in diagnostic procedure.

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