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CD10
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# BX50054
Clone# BP6059

Predicted Molecular Wt:	86kDa	**Purity:**	ProA affinity purified IgG
Species Cross-reactivity:	Human	**Form:**	Liquid
Applications:	IHC-P	**Swissprot ID:**	P08473

Background:

CD10 is a single-chain cell surface glycoprotein, also is designated as common acute lymphoblastic leukaemia antigen (CALLA), neprilysin and neutral endopeptidase. Besides, CD10 is a zink-dependent peptidase (metalloprotease), degrading various bioactive peptides, and it plays a functional role by modulating cellular responses to peptide substrates.

CD10 is present on the cell surface of bone marrow stem cells and myelopoietic cells (including neutrophils), follicular centre cells, few mature B-lymphocytes, and a subpopulation of parafollicular T-lymphocytes. CD10 is also found in enterocytes in the upper part of the intestinal tract (brush border), in liver (bile canaliculi), kidney (glomerular and proximal tubular cells), pulmonary alveolar cells, myoepithelial cells of breast and sweat and salivary glands, prostate glandular cells, placental trophoblastic cells, endometrial stromal cells, some endothelial cells, and a minority of (myo-)fibroblasts (including skin periadnexal cells). CD10 is expressed in a high percentage of cases of acute lymphoblastic leukemia, follicular lymphoma, Burkitt's lymphoma, some hematopoietic tumors, and chronic myelogenous leukemias in lymphoid blast crisis.

CD10 is particularly useful in the classification of B-cell leukaemias/lymphomas and classification of carcinomas (identification of hepatocellular carcinoma and renal cell carcinoma). CD10 may be used in the identification of metaplastic breast carcinoma, prognostication of breast carcinoma, and classification of uterine mesenchymal neoplasms (identification of stromal sarcoma).

Subcellular location:

Membrane

Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

A recombinant protein corresponding to CD10 residues within aa1-500 was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

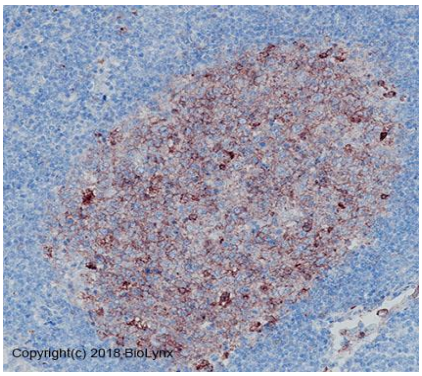
-20°C

Storage instructions:

Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections analysis of tonsil tissue labelling CD10 with BP6059. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Background References:

1. Chu P, et al. Am J Clin Pathol 2000 Mar;113(3):374-82.
2. Iwaya K, et al. Virchows Arch 2002 Jun;440(6):589-93.

Product QC'd by:

For research use only. Not for use in diagnostic or therapeutic applications.