

CD99 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50008

Clone# BP6013

Predicted Molecular Wt: 19kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P14209

Background:

CD99 is a type I transmembrane glycoprotein encoded by the CD99 gene and the functions of CD99 in cells in which CD99 was highly expressed have been studied and they were as follows: cell death of thymocytes and T lymphocytes, migration through monocyte endothelial junctions by adhesion and diapedesis, cell-cell adhesion in lymphocytes, maintenance of cellular morphology in Hodgkin and Reed/Sternberg cells, and recruitment of T cells.

CD99 expression has been reported in many cell types, such as hematopoietic cells, endothelial cells, central nervous system ependymal cells, thymocytes, granular cells of the ovary, Sertoli cells, and pancreatic islet cells. And in tumors it expressed by virtually almost all Ewings sarcoma and primitive peripheral neuroectodermal tumors (ES/PNET) and demonstrates strong and diffuse membranous staining. Other tumors that may show CD99 expression include neuroendocrine carcinomas, mesenchymal chondrosarcomas, solitary fibrous tumors, synovial sarcomas, vascular tumors, small round blue cell tumors, lymphoblastic lymphoma, acute myeloid leukemia, and myeloid sarcoma.

Studies have shown that CD99 may be a sensitive marker for Ewing's sarcoma and peripheral neuroectodermal tumors and may aid in the differential diagnosis of small blue cell tumors.

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:

Synthetic peptide corresponding to CD99 residues within aa85-C terminal of CD99 was used as an immunogen.

Storage Buffer:

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

Storage conditions:

-20°C

Storage instructions:

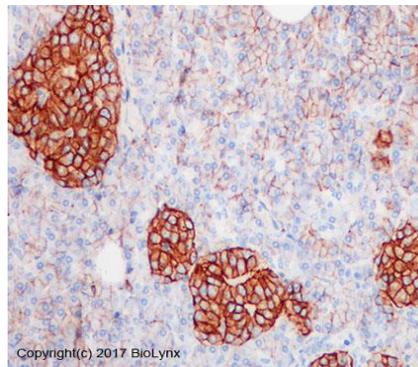
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200

Background References:

1. Gawon Choi, et al. Journal of Pathology and Translational Medicine 2016; 50: 361-368.
2. Ventura S, et al. Oncogene. 2016 Jul 28;35(30):3944-54.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human pancreas tissue labelling CD99 with BP6013. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by:



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