

CD46 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50364

Clone# BP6332

Predicted Molecular Wt: 44kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P15529

Background:

CD46, also known as membrane cofactor protein (MCP), belongs to the complement activation regulator (RCA) protein family. As a membrane cofactor mediating C3b and C4b cleavage cofactors, CD46 serves as a key regulator in the classical and selective complement activation cascade within the innate immune system. Extensive research indicates that CD46 modulates T cell immunity, particularly in controlling inflammation.

CD46 is a membrane protein widely distributed across all nucleated cells, with high expression primarily observed in tissues such as the brain, kidney, lung, spleen, small intestine, placenta, testis, and salivary glands. It exhibits particularly high and specific expression in the central nervous system (neurons, oligodendrocytes) and testis.

CD46 suppresses complement system activation to mitigate immune responses and modulates T cells to influence the production of anti-inflammatory factors, ultimately affecting inflammatory reactions. CD46 is upregulated in multiple myeloma (MM) and various solid tumors, including ovarian cancer, breast cancer, cervical cancer, colorectal cancer, prostate cancer, and bladder cancer. This abnormal expression may also correlate with malignant transformation and metastatic potential.

Subcellular location:

Secreted/Membrane/Cytoplasm

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:

The synthetic peptide corresponding to Human CD46 aa 35-84

Storage Buffer:

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

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

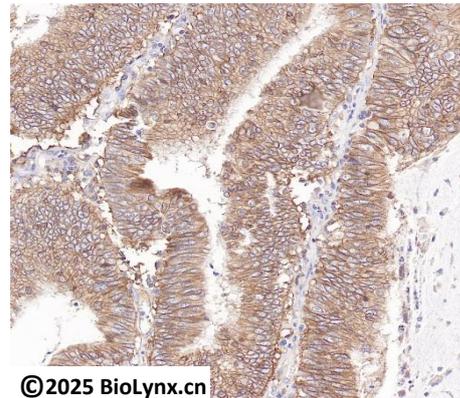
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

1. Xiaowen Ge, et al. (2023) Pathology, research and practice 247:154519
2. Qingyan Jiang, et al. (2023) Investigative ophthalmology & visual science 64:28



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colorectal cancer labelling CD46 with BP6332.

Product QC'd by: 

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