

DESCRIPTION

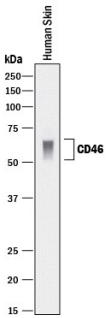

Species Reactivity	Human
Specificity	Detects human CD46 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD46 Cys35-Asn328 Accession # NP_722548
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Flow Cytometry	0.25 µg/10 ⁶ cells	Human whole blood monocytes
Immunohistochemistry	1-15 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Western Blot</p>  <p>Detection of Human CD46 by Western Blot. Western blot shows lysate of human skin tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human CD46 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2005) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for CD46 at approximately 50-70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>CD46 in Human Skin. CD46 was detected in immersion fixed paraffin-embedded sections of human skin using 1.7 µg/mL Goat Anti-Human CD46 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2005) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CD46, also known as MCP (complement membrane cofactor protein), is a type I membrane protein that has cofactor activity for inactivation of complement components C3b and C4b by serum factor I. CD46 is widely distributed in white blood cells, platelets, epithelial cells and fibroblasts. At least fourteen different transcript variants encoding different isoforms have been reported for this gene.