

Human CLEC-2A Antibody

Monoclonal Mouse IgG₁ Clone # 705529

Catalog Number: MAB72191

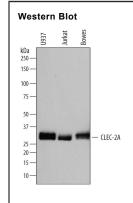
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human CLEC-2A in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) CLEC-2D, rhCLEC-2, or rhCD69 is observed.		
Source	Monoclonal Mouse IgG ₁ Clone # 705529		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CLEC-2A Trp49-Leu174 (predicted) Accession # Q6UVW9		
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 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.

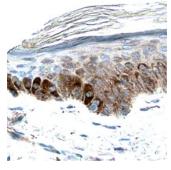
	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below
Immunohistochemistry	8-25 μg/mL	See Below

DATA



Detection of Human CLEC-2A by Western Blot. Western blot shows lysates of U937 human histicottic lymphoma cell line, Jurkat human acute T cell leukemia cell line, and Bowes human melanoma cell line. PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Human CLEC-2A Antigen Affinity-purified Monoclonal Antibody (Catalog # MAB72191) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for CLEC-2A at approximately 32 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



CLEC-2A in Human Skin. CLEC-2A was detected in immersion fixed paraffinembedded sections of human skin using Mouse Anti-Human CLEC-2A Antigen Affinity-purified Monoclonal Antibody (Catalog # MAB72191) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in keratinocytes. View our protocol for Chromogenic IHC Staining of Paraffinembedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL

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

- 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

CLEC-2A (C-type lectin domain family 2 member A), also known as PILAR and KACL, is an approximately 35 kDa type II transmembrane glycoprotein in the C-type lectin superfamily. It contains one C-type lectin domain in its extracellular region. Alternate splicing of human CLEC-2A generates an additional isoform with a substitution of 37 amino acids (aa) at the C-terminus. CLEC-2A is upregulated on antigen-activated CD8+ T cells and enhances T cell proliferation through interactions with CD161. It is also expressed on keratinocytes and binds to NKp65/KLRF2, triggering NK cell activation.

