

DESCRIPTION

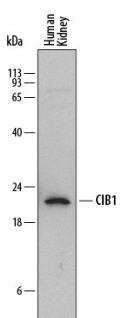
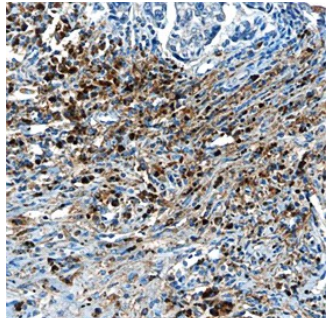
Species Reactivity	Human
Specificity	Detects human CIB1 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 791119
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human CIB1 Gly2-Leu191 Accession # E9Q3T6
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	2 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human CIB1 by Western Blot. Western blot shows lysates of human kidney tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human CIB1 Monoclonal Antibody (Catalog # MAB7557) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for CIB1 at approximately 22 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>CIB1 in Human Breast Cancer Tissue. CIB1 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Mouse Anti-Human CIB1 Monoclonal Antibody (Catalog # MAB7557) 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 of cancer cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <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

Calcium and Integrin binding protein 1 (CIB1), also known as Calmyrin, is a ubiquitously expressed 22 kDa myristoylated and membrane-associated protein. It contains two EF hand domains (aa 103-138 and aa 148-183). Calmyrin interacts with a range of proteins including Integrin alpha 2b and GPIIb/IIIa, Presenilin-2, InsP3R, Stathmin-2, Myosin 1C, Sphingosine Kinase 1, Polo-like kinases, and Rac3. Human Calmyrin shares 94% aa sequence identity with mouse and rat Calmyrin.