Datasheet for 600-401-J96

CD2AP phospho Y4-8-10 Antibody

Overview

Description:	Anti-CD2AP pY4-8-10 (RABBIT) Antibody - 600-401-J96
Item No.:	600-401-J96
Size:	50 µg
Applications:	IHC
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	CD2-associated protein appears to act as an adapter protein between membrane proteins and the actin cytoskeleton. It may also be a factor in receptor clustering and cytoskeletal polarity between T-cell and antigen-presenting cell. It seems it could also anchor the podocyte slit diaphragm to the actin skeleton in renal glomerulus. It is required for cytokinesis. CD2AP is widely expressed in fetal and adult tissue, localized in the cytoplasm of cells. Anti-CD2AP pY4-8-10 Antibody is ideal for investigators interested in Signal Transduction research.
Synonyms:	rabbit anti-CD2AP pY 4-8-10 Antibody, Adapter protein CMS, CD2AP, CD2-associated protein, Cas ligand with multiple SH3 domains, rabbit anti-CD2AP phosphorylated antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CD2AP
Reactivity:	Human
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-CD2AP pY 4-8-10 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a phosphorylated synthetic peptide at Tyr-4-8-10 at the N-terminal of human CD2AP protein.
Purity/Specificity:	Anti-CD2AP pY4-8-10 is directed against the phosphorylated form of CD2AP at residues pY4-8-10 and was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with human based on 100% sequence homology. Cross-reactivity with CD2AP from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9Y5K6

Application Details

Suggested Applications:	IHC (Based on references)
Application Note:	Anti-CD2AP antibody is useful for ELISA, Immunohistochemistry, and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~71kDa corresponding to the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1: 10,000
WB:	1ug/ml

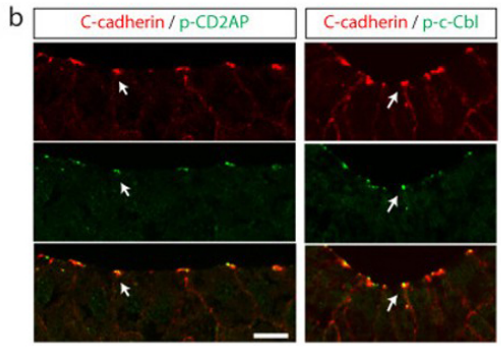
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol with 1 mg/ml Bovine Serum Albumin (BSA)

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy
b Neural plate stage Xenopus laevis embryos were fixed and processed for immunostaining. Images are transverse single z-sections of immunostained neural plate showing apical colocalization of phospho-CD2AP (p-CD2AP) and p-c-Cbl with C-cadherin. Scale bar, 10 µm. Similar results were observed in N = 3 independent experiments. Fig 6. PMID: 38388461

References

- Balashova OA et al. Noncanonical function of folate through folate receptor 1 during neural tube formation. *Nat Commun.* (2024)

Disclaimer

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