Anti-DAP Kinase 1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014184

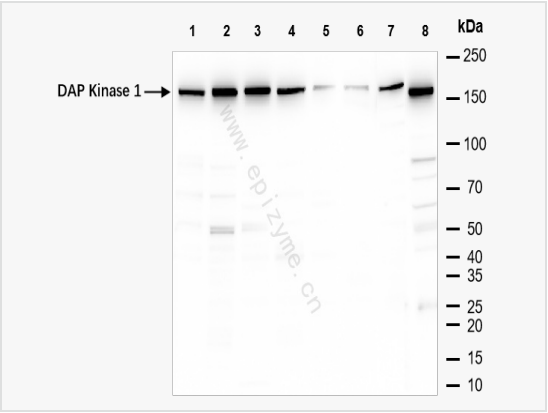
Product Information

Application	ELISA, WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC
Reactivity	Mouse, Rat, Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	19G20A34
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human DAP Kinase 1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-DAP Kinase 1 Rabbit mAb [19G20A34] is for research use only and not for use in diagnostic or therapeutic procedures.

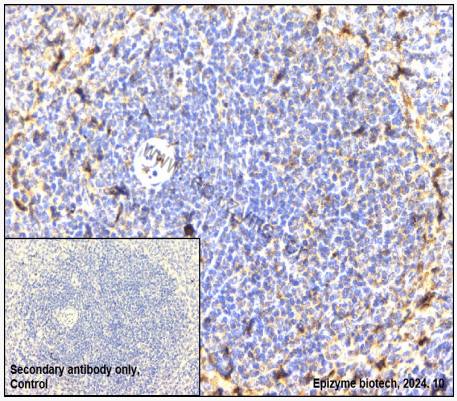
Protein Information

Synonyms	DAK1, DAP K1, DAP kinase 1, DAPK 1, DAPK, DAPK1, DAPK1_HUMAN, Death Associated Protein Kinase 1, Death-associated protein kinase 1, DKFZp781I035.
Calculated MW	Calculated MW: 160 kDa; Observed MW: 160 kDa
Uniprot ID	P53355
Gene ID	1612
Background	DAP (death associated protein) kinase and ZIP kinase are members of a novel protein kinase family, the members of which have the capacity to mediate apoptosis through their catalytic activities. DAP kinase (DAPK) contains a “death domain” and has been shown to mediate IFN-γ-induced apoptosis. The introduction of DAPK into highly metastatic carcinoma clones lacking DAPK expression has been shown to result in the suppression of metastasis, thus linking suppression of apoptosis to metastasis.
Cellular Location	Cytoplasm. Colocalizes with the actin filament system.

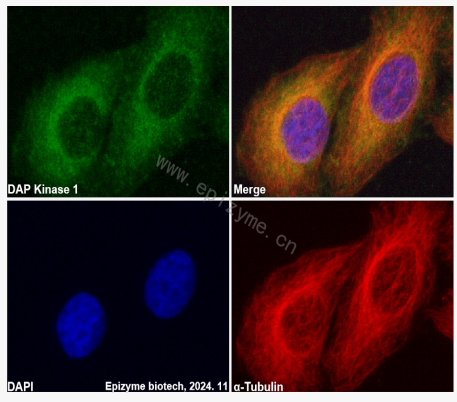
Validation Images



Western Blot - Anti-DAP Kinase 1 Rabbit mAb [19G20A34]
All lanes: R014184 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 3: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 6: Rat heart whole tissue lysates
Lane 7: Rat spleen whole tissue lysates
Lane 8: Mouse kidney whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 160 kDa
Observed band size: 160 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-DAP Kinase 1 Rabbit mAb [19G20A34]
Sample: Paraformaldehyde-fixed, paraffin embedded rat spleen tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014184 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-DAP Kinase 1 Rabbit mAb [19G20A34]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R014184 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).