10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-14-3-3 epsilon Antibody

Catalog # AP59733

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P62258
Reactivity	Human, Mouse, Rat, Zebrafish, Chicken, Bovine, Sheep, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29174

Additional Information

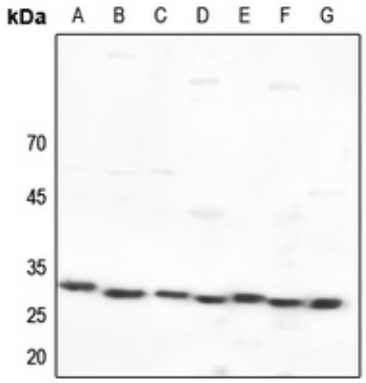
Gene ID	7531
Other Names	14-3-3 protein epsilon; 14-3-3E
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human 14-3-3 epsilon. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

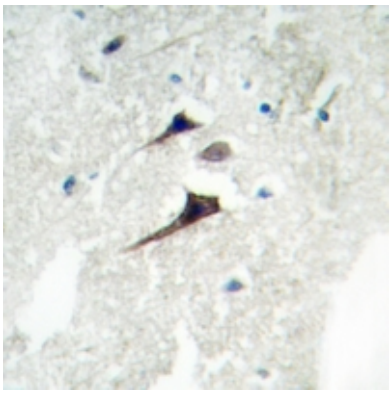
Name	YWHAE
Function	Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways (PubMed:21189250). Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif (PubMed:35343654). Binding generally results in the modulation of the activity of the binding partner (By similarity). Positively regulates phosphorylated protein HSF1 nuclear export to the cytoplasm (PubMed:12917326). Plays a positive role in the antiviral signaling pathway upstream of TBK1 via interaction with RIGI (PubMed:37555661). Mechanistically, directs RIGI redistribution from the cytosol to mitochondrial associated membranes where it mediates MAVS-dependent innate immune signaling during viral infection (PubMed:22607805). Plays a role in proliferation inhibition and cell cycle arrest by exporting HNRNPC from the nucleus to the cytoplasm to be degraded by ubiquitination (PubMed:37599448).
Cellular Location	Nucleus. Cytoplasm Melanosome Note=Identified by mass spectrometry in

melanosome fractions from stage I to stage IV.

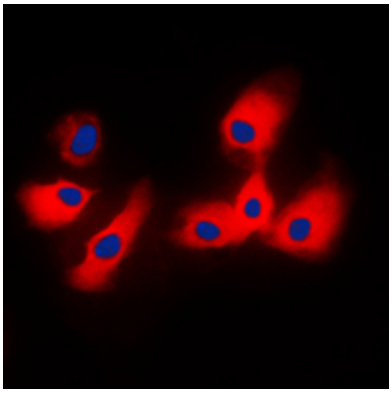
Images



Western blot analysis of 14-3-3 epsilon expression in HEK293T (A), Hela (B), H1688 (C), mouse liver (D), mouse testis (E), rat liver (F), rat testis (G) whole cell lysates. (Predicted band size: 29 kD; Observed band size: 30 kD)



Immunohistochemical analysis of 14-3-3 epsilon staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of 14-3-3 epsilon staining in NIH3T3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.