DATASHEET

14-3-3 epsilon Rabbit Polyclonal Antibody

CAT. NO. APA07707

KEY FEATURES

Target	14-3-3 epsilon	**Source / Host**	Rabbit
Reactivity	Human, Mouse, Rat, Bovine, Chicken, Monkey, Sheep, Zebrafish	**Clonality**	Polyclonal
Applications	WB, IHC, IF/ICC	**Conjugation**	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	**Storage**	at-20°C

BACKGROUND

Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways . Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif . Binding generally results in the modulation of the activity of the binding partner . Positively regulates phosphorylated protein HSF1 nuclear export to the cytoplasm . Plays a positive role in the antiviral signaling pathway upstream of TBK1 via interaction with RIGI . Mechanistically, directs RIGI redistribution from the cytosol to mitochondrial associated membranes where it mediates MAVS-dependent innate immune signaling during viral infection .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:100
IF/ICC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to 14-3-3 epsilon
Specificity	Recognizes endogenous levels of 14-3-3 epsilon protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human 14-3-3 epsilon. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 29 kD; Observed: 30 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	14-3-3 protein epsilon; 14-3-3E
Gene Symbol	YWHAE
Entrez Gene	7531(Human); 22627(Mouse); 29753(Rat)
SwissProt	P62258(Human); P62259(Mouse); P62260(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

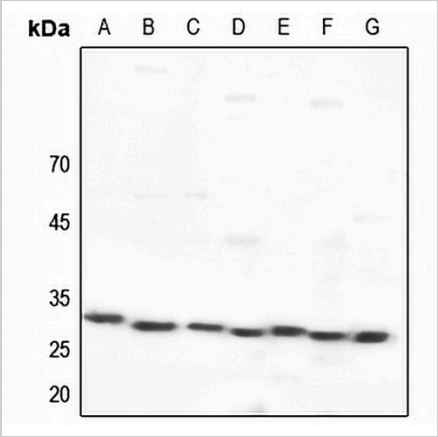
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

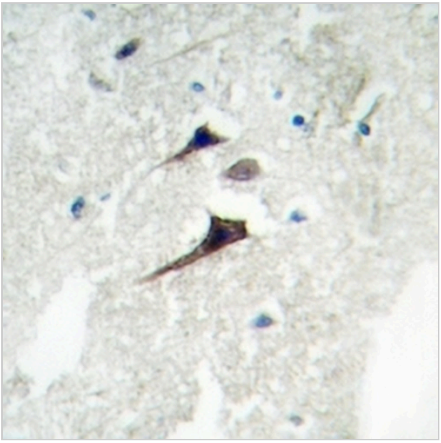
14-3-3 epsilon Rabbit Polyclonal Antibody

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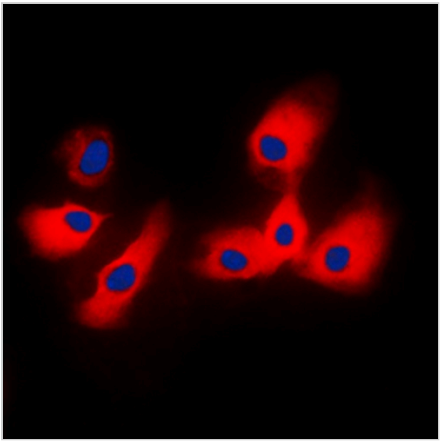
DATA



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).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.