

Product Datasheet

14-3-3 epsilon Antibody / YWHAE (orb606854)

Catalog Number	orb606854
Category	Antibodies
Description	Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathway. 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. It interacts with CDC25 phosphatases, RAF1 and IRS1 proteins, suggesting its role in diverse biochemical activities related to signal transduction, such as cell division and regulation of insulin sensitivity. It has also been implicated in the pathogenesis of small cell lung cancer. The YWHAE gene which encodes 14-3-3 epsilon has also been identified as a possible susceptibility gene for schizophrenia.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2a, kappa
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
Purification	Protein G affinity chromatography
Immunogen	Full length recombinant human protein was used as the immunogen for the 14-3-3 epsilon antibody.
UniProt ID	P62258
Tested applications	IHC-P, WB

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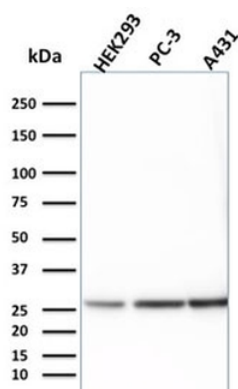
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Dilution range	Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Application notes	The stated application concentrations are suggested starting points. Titration of the 14-3-3 epsilon antibody may be required due to differences in protocols and secondary/substrate sensitivity.1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
Antibody Type	Primary Antibody
Clone Number	CPTC-YWHAE-1
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



Western blot testing of human 1) HEK293, 2) PC-3 and 3) A431 lysate with 14-3-3 epsilon antibody. Predicted molecular weight ~28 kDa.

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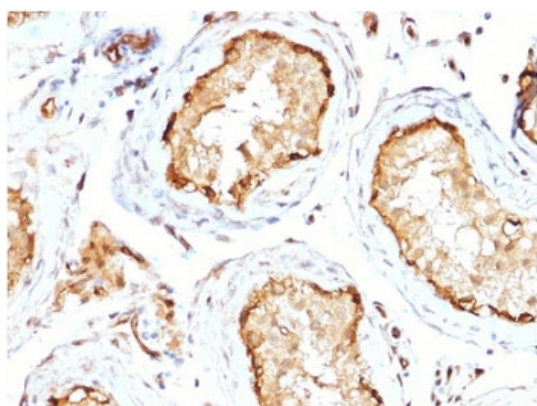
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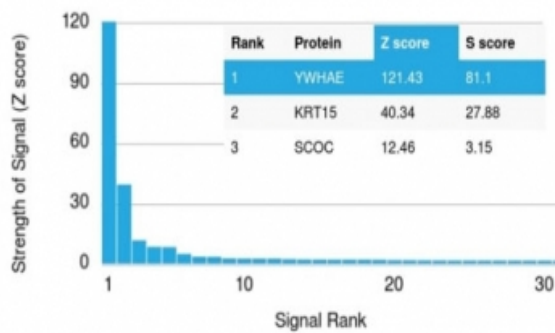
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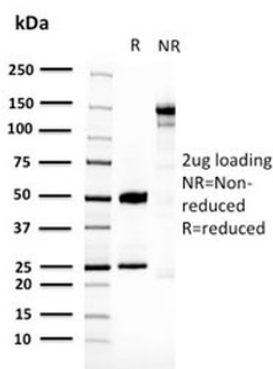


IHC staining of FFPE human testis with 14-3-3 epsilon antibody (clone CPTC-YWHAE-1). HIER: boil tissue sections in pH6, 10 mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.

Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using 14-3-3 epsilon antibody (clone CPTC-YWHAE-1). These results demonstrate the foremost specificity of the CPTC-YWHAE-1 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free 14-3-3 epsilon antibody (clone ACP5/2336R) as confirmation of integrity and purity.

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