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YWHAZ Antibody (D231)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8152b

Specification

YWHAZ Antibody (D231) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P63104
Other Accession	P63102, P63101, Q5ZKC9, P63103, P29361
Reactivity	**Human, Mouse**
Predicted	**Bovine, Chicken, Rat, Sheep**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**27745**
Antigen Region	**216-245**

YWHAZ Antibody (D231) - Additional Information

Gene ID 7534

Other Names
14-3-3 protein zeta/delta, Protein kinase C inhibitor protein 1, KCIP-1, YWHAZ

Target/Specificity
This YWHAZ antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 216-245 amino acids from human YWHAZ.

Dilution
WB~~1:1000
IHC-P~~1:50~100
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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.

Precautions
YWHAZ Antibody (D231) is for research use only and not for use in diagnostic or therapeutic procedures.

YWHAZ Antibody (D231) - Protein Information

Name YWHAZ

Function Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways (PubMed:14578935, PubMed:15071501, PubMed:15644438, PubMed:16376338, PubMed:16959763, PubMed:31024343, PubMed:9360956). Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif (PubMed:35662396). Binding generally results in the modulation of the activity of the binding partner (PubMed:35662396). Promotes cytosolic retention and inactivation of TFEB transcription factor by binding to phosphorylated TFEB (PubMed:35662396). Induces ARHGEF7 activity on RAC1 as well as lamellipodia and membrane ruffle formation (PubMed:16959763). In neurons, regulates spine maturation through the modulation of ARHGEF7 activity (By similarity).

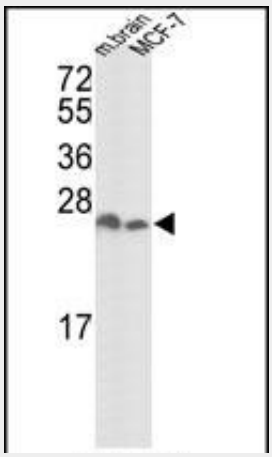
Cellular Location
Cytoplasm. Melanosome. Note=Located to stage I to stage IV melanosomes.

YWHAZ Antibody (D231) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

YWHAZ Antibody (D231) - Images



Western blot analysis of hYWHAZ-D231 (Cat. #AP8152b) in mouse brain tissue and MCF-7 cell line lysates (35ug/lane). YWHAZ (arrow) was detected using the purified Pab.

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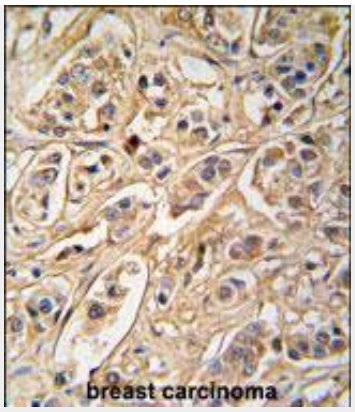

Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with 14-3-3 protein zeta/delta antibody (C-term) (Cat. #AP8152b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

YWHAZ Antibody (D231) - Background

YWHAZ belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 99% identical to the mouse, rat and sheep orthologs. The encoded protein interacts with IRS1 protein, suggesting a role in regulating insulin sensitivity. Two transcript variants differing in the 5' UTR, but encoding the same protein, have been identified for the gene. Both variants encode the same protein, however, they are differentially expressed in hematopoietic cells.

YWHAZ Antibody (D231) - References

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Li, Y., et al., J. Biol. Chem. 277(47):44593-44596 (2002).
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