

TUB antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI10090

Product Information

Application	WB, IHC
Primary Accession	P50607
Other Accession	P50607 , NP_003311 , NM_003320
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse
Predicted	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55651

Additional Information

Gene ID	7275
Alias Symbol	rd5
Other Names	Tubby protein homolog, TUB
Target/Specificity	TUB functions in signal transduction from heterotrimeric G protein-coupled receptors. It could be involved in the hypothalamic regulation of body weight. This gene encodes a member of the Tubby family of bipartite transcription factors. The encoded protein may play a role in obesity and sensorineural degeneration. The crystal structure has been determined for a similar protein in mouse, and it functions as a membrane-bound transcription regulator that translocates to the nucleus in response to phosphoinositide hydrolysis. Two transcript variants encoding distinct isoforms have been identified for this gene.
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-TUB antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.
Precautions	TUB antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TUB
Function	Functions in signal transduction from heterotrimeric G protein-coupled

receptors. Binds to membranes containing phosphatidylinositol 4,5-bisphosphate. Can bind DNA (in vitro). May contribute to the regulation of transcription in the nucleus. Could be involved in the hypothalamic regulation of body weight (By similarity). Contribute to stimulation of phagocytosis of apoptotic retinal pigment epithelium (RPE) cells and macrophages.

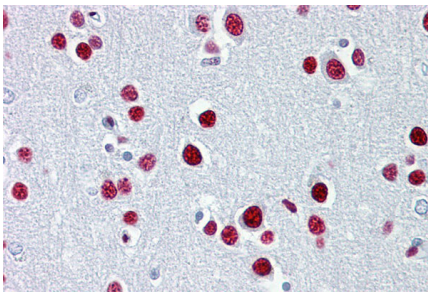
Cellular Location

Cytoplasm. Nucleus. Secreted. Cell membrane; Peripheral membrane protein; Cytoplasmic side Note=Binds phospholipid and is anchored to the plasma membrane through binding phosphatidylinositol 4,5-bisphosphate. Is released upon activation of phospholipase C. Translocates from the plasma membrane to the nucleus upon activation of guanine nucleotide-binding protein G(q) subunit alpha. Does not have a cleavable signal peptide and is secreted by a non-conventional pathway (By similarity).

Background

This is a rabbit polyclonal antibody against TUB. It was validated on Western Blot using a cell lysate as a positive control. Abgent strives to provide antibodies covering each member of a whole protein family of your interest. We also use our best efforts to provide you antibodies recognize various epitopes of a target protein. For availability of antibody needed for your experiment, please inquire (sales@abgent.com).

Images



TUB antibody - N-terminal region (AI10090) in Human brain cells using Immunohistochemistry
Brain, cortex



TUB antibody - N-terminal region (AI10090) in Human Lung cells using Western Blot
WB Suggested Anti-TUB Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:12500
Positive Control: Human Lung

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