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TUB antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10090

Specification

TUB antibody - N-terminal region - 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	**62 kDa KDa**

TUB antibody - N-terminal region - 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 degradation. 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.

TUB antibody - N-terminal region - 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.

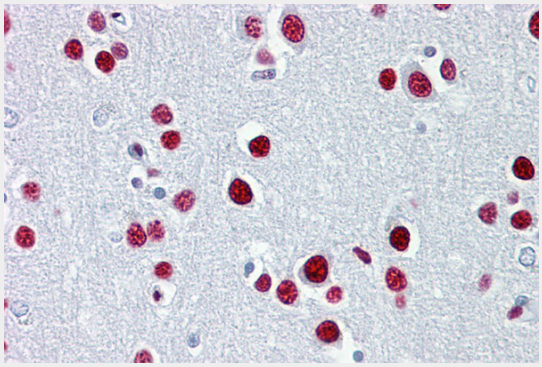
Cellular Location
Cytoplasm. Nucleus. Secreted. Cell membrane; Peripheral membrane protein; Cytoplasmic side Note=Binds phospholipid and is anchored to the plasma membrane through binding phosphatidylinositol 4,5-bisphosphate. Is released upon activation of phospholipase C. Translocates from the plasma 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).

TUB antibody - N-terminal region - 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

TUB antibody - N-terminal region - Images



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

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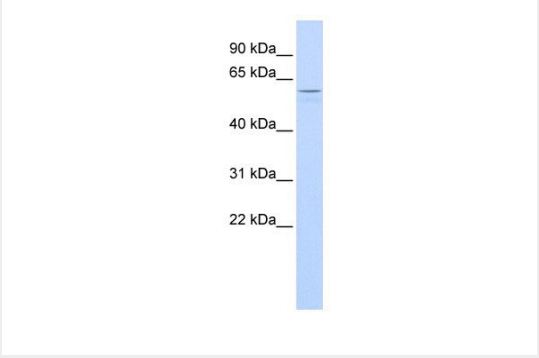

TUB antibody - N-terminal region (AI10090) in Human Lung cells using Western Blot
WB Suggested Anti-TUB Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:12500
Positive Control: Human Lung

TUB antibody - N-terminal region - 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).