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Anti-TUB 1 Picoband Antibody

Catalog # ABO10266

Specification

Anti-TUB 1 Picoband Antibody - Product Information

Application	**WB**
Primary Accession	P50607
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Tubby protein homolog(TUB) detection. Tested with WB in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-TUB 1 Picoband Antibody - Additional Information

Gene ID 7275

Other Names
Tubby protein homolog, TUB

Calculated MW
55651 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Cytoplasm . Nucleus . Secreted . Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . 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). .

Protein Name
Tubby protein homolog

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human TUB 1 (395-429aa VHERVSIRPRNEHETLLARWQNKNTESIIELQNKT), different from the related mouse and rat sequences by one amino acid.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-TUB 1 Picoband Antibody - 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).

Anti-TUB 1 Picoband Antibody - 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

Anti-TUB 1 Picoband Antibody - Images

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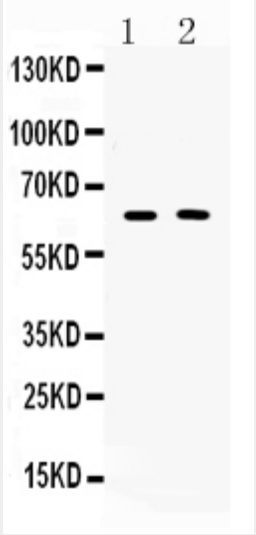

Western blot analysis of TUB 1 expression in COLO320 whole cell lysates (lane 1) and MCF-7 whole cell lysates (lane 2). TUB 1 at 62KD was detected using rabbit anti- TUB 1 Antigen Affinity purified polyclonal antibody (Catalog #ABO10266) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-TUB 1 Picoband Antibody - Background

Tubby protein homolog is a protein that in humans is encoded by the TUB gene. 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.