

Anti-TUB 1 Picoband Antibody

Catalog # ABO10266

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.

Additional Information

Gene ID	7275
Other Names	Tubby protein homolog, TUB
Calculated MW	55651
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). .
Source	Eukaryota
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 VHERVSIRPRNEHETLLARWQNKNTEIIEIQNKT), 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 reconstitution, 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.

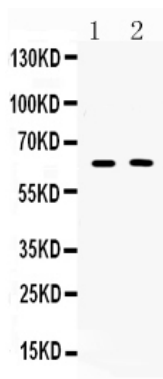
Protein Information

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

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.

Images



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 µg/mL. The blot was developed using chemiluminescence (ECL) method.

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