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Anti-NARG1 Picoband Antibody

Catalog # ABO10319

Product Information

Application	WB, IHC-P
Primary Accession	Q9BXJ9
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for N-alpha-acetyltransferase 15, NatA auxiliary subunit(NAA15) detection. Tested with WB, IHC-P in Human;Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	80155
Other Names	N-alpha-acetyltransferase 15, NatA auxiliary subunit, Gastric cancer antigen Ga19, N-terminal acetyltransferase, NMDA receptor-regulated protein 1, Protein tubedown-1, Tbdn100, NAA15, GA19, NARG1, NATH, TBDN100
Calculated MW	101272
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Mouse, Human, By Heat Western blot, 0.1-0.5 □g/ml, Human
Subcellular Localization	Cytoplasm. Nucleus. Mainly cytoplasmic, nuclear in some cases. Present in the free cytosolic and cytoskeleton-bound polysomes, but not in the membrane-bound polysomes.
Tissue Specificity	Expressed at high levels in testis and in ocular endothelial cells. Also found in brain (corpus callosum), heart, colon, bone marrow and at lower levels in most adult tissues, including thyroid, liver, pancreas, mammary and salivary glands, lung, ovary, urogenital system and upper gastrointestinal tract. Overexpressed in gastric cancer, in papillary thyroid carcinomas and in a Burkitt lymphoma cell line (Daudi). Specifically suppressed in abnormal proliferating blood vessels in eyes of patients with proliferative diabetic retinopathy. .
Source	Eukaryota
Protein Name	N-alpha-acetyltransferase 15, NatA auxiliary subunit

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 N-terminus of human NARG1 (244-287aa ADVYRGLQERNPENWAYYKGLEKALKPANMLERLKIYEEAWTKY), different from the related mouse sequence 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.

Protein Information

Name	NAA15
Synonyms	GA19, NARG1, NATH, TBDN100
Function	Auxillary subunit of N-terminal acetyltransferase complexes which display alpha (N-terminal) acetyltransferase (NAT) activity (PubMed:15496142, PubMed:20154145, PubMed:29754825, PubMed:32042062). The NAT activity may be important for vascular, hematopoietic and neuronal growth and development (PubMed:15496142). Required to control retinal neovascularization in adult ocular endothelial cells (PubMed:11687548). In complex with XRCC6 and XRCC5 (Ku80), up-regulates transcription from the osteocalcin promoter (PubMed:12145306).
Cellular Location	Cytoplasm. Nucleus. Note=Mainly cytoplasmic, nuclear in some cases. Present in the free cytosolic and cytoskeleton- bound polysomes, but not in the membrane-bound polysomes
Tissue Location	Expressed at high levels in testis and in ocular endothelial cells. Also found in brain (corpus callosum), heart, colon, bone marrow and at lower levels in most adult tissues, including thyroid, liver, pancreas, mammary and salivary glands, lung, ovary, urogenital system and upper gastrointestinal tract. Overexpressed in gastric cancer, in papillary thyroid carcinomas and in a Burkitt lymphoma cell line (Daudi). Specifically suppressed in abnormal proliferating blood vessels in eyes of patients with proliferative diabetic retinopathy.

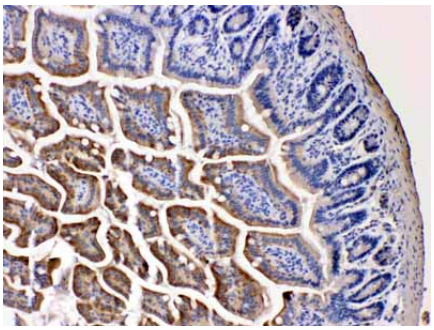
Background

NMDA receptor-regulated protein 1 (NARG1), also known as GA19 or Tbdn100 is a protein that in humans is encoded by the NAA15 gene. It is mapped to chromosome 4. NARG1 is the auxiliary subunit of the NatA (N □±-acetyltransferase A) complex. Both, Naa15 and Naa16 interact with the ribosome in yeast (via the ribosomal proteins, uL23 and uL29), humans and rat, thereby linking the NatA/Naa10 to the ribosome and facilitating co-translational acetylation of nascent polypeptide chains as they emerges from the exit tunnel. Furthermore, Naa15 might act as a scaffold for other factors, including the chaperone like protein HYPK (Huntingtin Interacting Protein K) and Naa50, the catalytic acetyltransferase subunit of NatE.

Images

Western blot analysis of NARG1 expression in 293T whole

cell lysates (lane 1). NARG1 at 101KD was detected using rabbit anti- NARG1 Antigen Affinity purified polyclonal antibody (Catalog #ABO10319) at 0.5 □¼g/mL. The blot was developed using chemiluminescence (ECL) method .



NARG1 was detected in paraffin-embedded sections of mouse intestine tissues using rabbit anti- NARG1 Antigen Affinity purified polyclonal antibody (Catalog # ABO10319) at 1 □¼g/mL. The immunohistochemical section was developed using SABC method .