

Anti-Atrophin-1 Antibody

Catalog # AP51002

Product Information

Application	WB
Primary Accession	P54259
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	125414

Additional Information

Gene ID	1822
Other Names	D12S755E; DRPLA; Atrophin-1; Dentatorubral-pallidoluysian atrophy protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Atrophin-1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	ATN1
Synonyms	D12S755E, DRPLA
Function	Transcriptional corepressor. Recruits NR2E1 to repress transcription. Promotes vascular smooth cell (VSMC) migration and orientation (By similarity). Corepressor of MTG8 transcriptional repression. Has some intrinsic repression activity which is independent of the number of poly-Gln (polyQ) repeats.
Cellular Location	Nucleus. Cytoplasm, perinuclear region. Cell junction {ECO:0000250 UniProtKB:P54258}. Note=Shuttles between nucleus and cytoplasm. Colocalizes with FAT1 in the perinuclear area, at cell- cell junctions and leading edges of cells (By similarity). Colocalizes with MTG8 in discrete nuclear dots. Proteolytic fragment F1 appears to remain in nucleus. Fragment F2 is exported into the cytoplasm. Fragment F2 from mutant sequences with longer poly-Gln (polyQ) tracts are additionally located to the cytoplasmic membrane and to certain organelles.

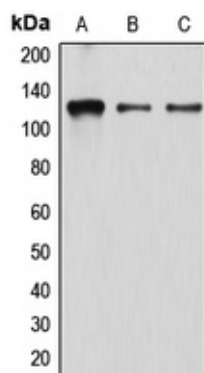
Tissue Location

Widely expressed in various tissues including heart, lung, kidney, ovary, testis, prostate, placenta, skeletal Low levels in the liver, thymus and leukocytes. In the adult brain, broadly expressed in amygdala, caudate nucleus, corpus callosum, hippocampus, hypothalamus, substantia nigra, subthalamic nucleus, and thalamus. High levels in fetal tissues, especially brain.

References

Nagafuchi S.,et al.Nat. Genet. 8:177-182(1994).
Onodera O.,et al.Am. J. Hum. Genet. 57:1050-1060(1995).
Margolis R.L.,et al.Brain Res. Mol. Brain Res. 36:219-226(1996).
Ansari-Lari M.A.,et al.Genome Res. 7:268-280(1997).
Yanagisawa H.,et al.Hum. Mol. Genet. 5:373-379(1996).

Images



Western blot analysis of Atrophin-1 expression in K562 (A), EOC20 (B), HeLa (C) whole cell lysates. (Predicted band size: 125 kD; Observed band size: 125 kD)

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