

ARG10763
anti-TDP43 antibody [3H8]Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal to Anti-Tar DNA Binding Protein 43 (TARBDP)
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-Fr, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	3H8
Isotype	IgG1
Target Name	TDP43
Antigen Species	Human
Immunogen	Full length recombinant Human TDP43 expressed in and purified from E. coli.
Conjugation	Un-conjugated
Alternate Names	TAR DNA-binding protein 43; TDP-43; ALS10

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:1000
	IHC-Fr	1:1000
	IHC-P	Assay-dependent
	WB	1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Calculated Mw	45 kDa	

Properties

Form	Liquid
Purification	Affinity purification.
Buffer	PBS and 50% Glycerol.
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 230908 Mouse](#)

[GeneID: 23435 Human](#)

[Swiss-port # Q13148 Human](#)

[Swiss-port # Q921F2 Mouse](#)

Gene Symbol

TARDBP

Gene Full Name

TAR DNA binding protein

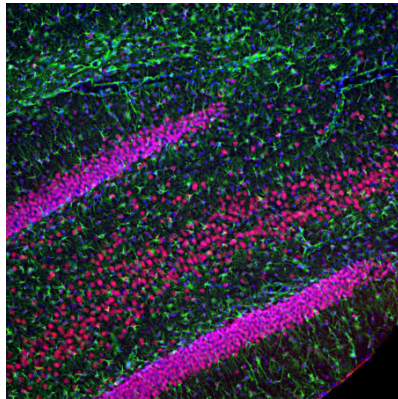
Background

HIV-1, the causative agent of acquired immunodeficiency syndrome (AIDS), contains an RNA genome that produces a chromosomally integrated DNA during the replicative cycle. Activation of HIV-1 gene expression by the transactivator Tat is dependent on an RNA regulatory element (TAR) located downstream of the transcription initiation site. The protein encoded by this gene is a transcriptional repressor that binds to chromosomally integrated TAR DNA and represses HIV-1 transcription. In addition, this protein regulates alternate splicing of the CFTR gene. A similar pseudogene is present on chromosome 20. [provided by RefSeq, Jul 2008]

Function

DNA and RNA-binding protein which regulates transcription and splicing. Involved in the regulation of CFTR splicing. It promotes CFTR exon 9 skipping by binding to the UG repeated motifs in the polymorphic region near the 3'-splice site of this exon. The resulting aberrant splicing is associated with pathological features typical of cystic fibrosis. May also be involved in microRNA biogenesis, apoptosis and cell division. Can repress HIV-1 transcription by binding to the HIV-1 long terminal repeat. Stabilizes the low molecular weight neurofilament (NFL) mRNA through a direct interaction with the 3' UTR. [UniProt]

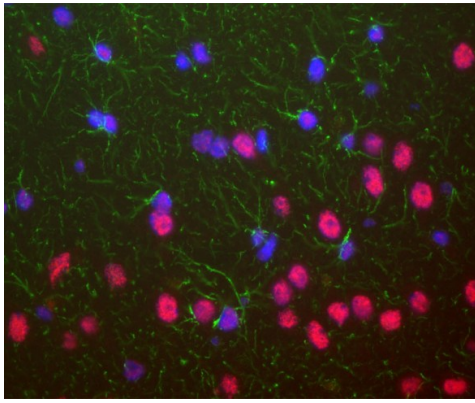
Images



ARG10763 anti-TDP43 antibody [3H8] IHC-Fr image

Immunohistochemistry: Frozen section of Rat hippocampus stained with ARG10763 anti-TDP43 antibody [3H8] (red) at 1:2000 dilution and costained with [ARG52313](#) anti-GFAP antibody (green) at 1:5000 dilution. DAPI (blue) for nuclear staining. (Sample preparation: Following transcardial perfusion of Rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45 μ M, and free-floating sections were stained with above antibodies.)

The TDP43 protein is concentrated in the nuclei of hippocampal neurons, while the GFAP antibody stains the intermediate filament network of astroglial cells.



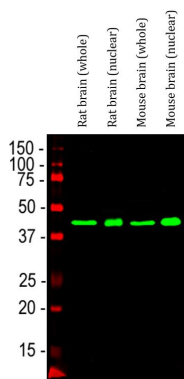
ARG10763 anti-TDP43 antibody [3H8] IHC-Fr image

Immunohistochemistry: Frozen sections of Formalin-fixed adult Rat brain, specifically the hippocampus. Hippocampal neuron nuclei are stained with ARG10763 anti-TDP43 antibody [3H8]. Chicken antibody to GFAP (green) shows the processes of astrocytic glial cells. Nuclei of all cells are revealed with DAPI DNA stain (blue). The TARDP antibody stains neuronal nuclei strongly and the nuclei of some non-neuronal cells much more weakly. Neuronal nuclei therefore look crimson, since they are both red due to the content of TDP43 and blue due to their content of DNA, stained blue with DAPI.



ARG10763 anti-TDP43 antibody [3H8] WB image

Western blot: Crude extract of Mouse brain nuclear fraction (left) and cytoplasmic fraction (right) stained with ARG10763 anti-TDP43 antibody [3H8]. There is a strong clear band in the nuclear preparation running at 43 kDa.



ARG10763 anti-TDP43 antibody [3H8] WB image

Western blot: Rat brain (whole), Rat brain (nuclear), Mouse brain (whole), Mouse brain (nuclear). The blots were stained with ARG10763 anti-TDP43 antibody [3H8] (green) at 1:2000 dilution.