

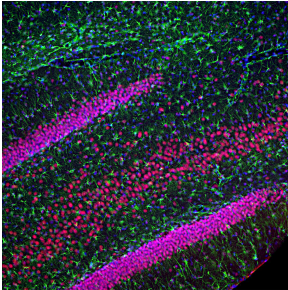
Anti-TDP43 Antibody [3H8] (A85389)

Specifications:

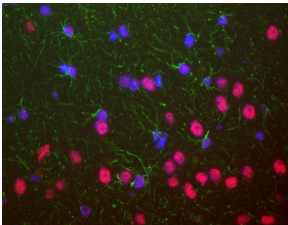
Name:	Anti-TDP43 Antibody [3H8]
Description:	Mouse monoclonal (3H8) antibody to TDP43.
Specificity:	The epitope for this antibody is in the center of the peptide HNSNRQLERSGRFGGNPGGF, C-terminal to second RRM domain, amino acids 264-283 of human TDP43. This is the region typically in TDP43 inclusions. This peptide is 100% conserved in a wide variety of mammalian species.
Applications:	WB, ICC/IF, IHC
Recommended Dilutions:	WB: 1:5,000, ICC/IF: 1:1,000, IHC: 1:1,000
Reactivity:	Human, Rat, Mouse, Bovine, Porcine, Horse
Immunogen:	Recombinant full-length human TDP43, expressed in and purified from E. coli.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	3H8
Isotype:	IgG1
Conjugate:	Unconjugated
Purification:	Immunogen affinity purification.
Concentration:	1 mg/ml
Molecular Weight:	43 kDa
Product Form:	Liquid
Formulation:	Supplied in Phosphate Buffered Saline with 50% Glycerol and 5mM Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

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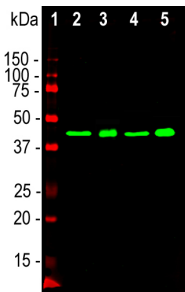
Images:



Immunofluorescent analysis of rat hippocampus section stained with Anti-TARBDP Antibody (1:2,000 | red) and Anti-GFAP Antibody (A85307 | 1:5,000 | green). The blue is DAPI staining of nuclear DNA. 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 the above antibodies. The TDP43 protein is concentrated in the nuclei of hippocampal neurons, while the Anti-GFAP Antibody stains the network of astroglial cells.



Anti-TARBDP Antibody was used to stain a section of formalin fixed adult rat brain, specifically the hippocampus. Hippocampal neuron nuclei are stained strongly. Anti-GFAP Antibody (A85307 | green) shows the processes of astrocytic glial cells. Nuclei of all cells are revealed with DAPI DNA stain (blue). The Anti-TARBDP 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.



Western blot analysis of whole brain lysates and nuclear extract from whole brain using Anti-TARBDP Antibody [3H8] (A85389), at a dilution of 1:2,000, in green. The lanes contain samples of: [1] Protein standards, in red, [2] rat brain, [3] rat brain nuclear extract, [4] mouse brain, [5] mouse brain nuclear extract. The strong band at 43 kDa visible in both whole brain and brain nuclear extract corresponds to TARBDP protein.



Western blot analysis of crude extract of mouse brain nuclear fraction (left lane) and cytoplasmic fraction (right lane) probed with Anti-TARBDP Antibody. There is a strong clear band in the nuclear preparation running at 43 kDa, and a much more minor band in the cytoplasmic fraction.