Human/Mouse/Rat TDP-43/TARDBP Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 982022

Catalog Number: FAB77781R

100 µg

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human TDP-43/TARDBP in direct ELISAs. Detects human, mouse, and rat TDP-43/TARDBP in Western blots.
Source	Monoclonal Mouse IgG_{2A} Clone # 982022
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E.coli*-derived recombinant human TDP-43/TARDBP Met1-Thr103 Accession # Q13148
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

TDP-43 (TAR DNA binding protein of 43 kDa; gene name TARDBP) is a 414 amino acid (aa) nuclear RNA/DNA binding phosphoprotein that regulates transcription and splicing. TDP-43 is aberrantly expressed in most forms of amylotrophic lateral sclerosis and frontotemporal lobar degeneration. In these cases it is absent from the nucleus and accumulates, along with a truncated 20-28 kDa form, in ubiquitin-containing inclusion bodies. TDP-43 can also influence CFTR exon 9 skipping in cystic fibrosis. Within aa 1-103, human and mouse TDP-43 share 100% aa sequence identity, and 99% aa identity with rat TDP-43.

PRODUCT SPECIFIC NOTICES

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