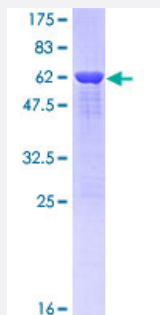


TARDBP (Human) Recombinant Protein (Q01)

Catalog # H00023435-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human TARDBP partial ORF (NP_031401.1, 1 a.a. - 260 a.a.) recombinant protein with GST tag at N-terminal.
Sequence	MSEYIRVTEDENDIEIPSEDDGTLLSTVTAQFPGACGLRYRNPVSQCMRGVRLVEGILHAPDA GWGNLVVVNYPKDNKRKMDDETASSAVKVKRAVQKTSDDLVLGLPWKTTEQDLKEYFSTFGEV LMVQKKDLKTGHSKGFVRFTEYETQVKVMSQRHMIDGRWCDCKLPNSKQSQDEPLRSRKV FVGRCTEDMTEDELREFFSQYGDVMDVFIPKPFRAFAFVTFADDQIAQSLCGEDLIKGISVHISNA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	54.34
Interspecies Antigen Sequence	Mouse (96)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — TARDBP

Entrez GeneID [23435](#)

GeneBank Accession# [NM_007375.3](#)

Protein Accession# [NP_031401.1](#)

Gene Name TARDBP

Gene Alias ALS10, TDP-43

Gene Description TAR DNA binding protein

Omim ID [605078](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations OTTHUMP00000002171|TAR DNA-binding protein-43

Publication Reference

- [Improved detection of prostate cancer using a magneto-nanosensor assay for serum circulating autoantibodies.](#)

Xu L, Lee JR, Hao S, Ling XB, Brooks JD, Wang SX, Gambhir SS.

PLoS One 2019 Aug; 14(8):e0221051.

Application: Func, Human, As a standard, Human serum

- [Muscle-dominant wild-type TDP-43 expression induces myopathological changes featuring tubular aggregates and TDP-43-positive inclusions.](#)

Tawara N, Yamashita S, Kawakami K, Kurashige T, Zhang Z, Tasaki M, Yamamoto Y, Nishikami T, Doki T, Zhang X, Matsuo Y, Kimura E, Tawara A, Maeda Y, Hauschka SD, Maruyama H, Ando Y.

Experimental Neurology 2018 Nov; 309:169.

Application: Treated, Mouse, C2C12 cells

- [Homozygosity for the C9orf72 GGGGCC repeat expansion in frontotemporal dementia.](#)

Fratta P, Poulter M, Lashley T, Rohrer JD, Polke JM, Beck J, Ryan N, Hensman D, Mizielinska S, Waite AJ, Lai MC, Gendron TF, Petrucelli L, Fisher EM, Revesz T, Warren JD, Collinge J, Isaacs AM, Mead S.

Acta Neuropathologica 2013 Sep; 126(3):401.

Application: IHC, Human, Human brains

- [Clinical and neuroanatomical signatures of tissue pathology in frontotemporal lobar degeneration.](#)

Rohrer JD, Lashley T, Schott JM, Warren JE, Mead S, Isaacs AM, Beck J, Hardy J, de Silva R, Warrington E, Troakes C, Al-Sarraj S, King A, Borroni B, Clarkson MJ, Ourselin S, Holton JL, Fox NC, Revesz T, Rossor MN, Warren JD.

Brain 2011 Sep; 134(Pt 9):2565.

Application: IHC, Human, Brain

- [Development of a novel nonradiometric assay for nucleic acid binding to TDP-43 suitable for high-throughput screening using AlphaScreen technology.](#)

Cassel JA, Blass BE, Reitz AB, Pawlyk AC.

Journal of Biomolecular Screening 2010 Oct; 15(9):1099.

Application: Incubated, Recombinant protein

Disease

- [Alzheimer Disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Chromosome Disorders](#)
- [Dementia](#)

- [Genetic Predisposition to Disease](#)
- [Neurodegenerative Diseases](#)
- [Parkinson disease](#)