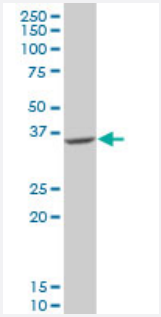
GDAP1 polyclonal antibody (A01)

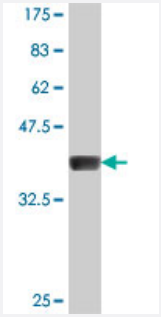
Catalog # H00054332-A01 Size 50 uL

Applications



Western Blot (Cell lysate)

GDAP1 polyclonal antibody (A01), Lot # 060613JCS1 Western Blot analysis of GDAP1 expression in HepG2 (Cat # L019V1).



Western Blot detection against Immunogen (37.11 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant GDAP1.
Immunogen	GDAP1 (NP_061845, 158 a.a. ~ 257 a.a) partial recombinant protein with GST tag.
Sequence	TRIRSQIGNTESELKKLAEENPDLQEAYIAKQKRLKSKLLDHDNVKYLKKILDELEKVLDQVETELQ RRNEETPEEGQQPWLCGESFTLADVSLAVTLHR
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (96); Rat (95)

Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.11 KDa) .
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

  GDAP1 polyclonal antibody (A01), Lot # 060613JCS1 Western Blot analysis of GDAP1 expression in HepG2 (Cat # L019V1).

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- ELISA

Gene Info — GDAP1

Entrez GeneID	54332
GeneBank Accession#	NM_018972
Protein Accession#	NP_061845
Gene Name	GDAP1
Gene Alias	-
Gene Description	ganglioside-induced differentiation-associated protein 1
Omim ID	214400 606598 607706 607831
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the ganglioside-induced differentiation-associated protein family , which may play a role in a signal transduction pathway during neuronal development. Mutations i n this gene have been associated with various forms of Charcot-Marie-Tooth Disease and neurop athy. Two transcript variants encoding different isoforms have been identified for this gene. [provi ded by RefSeq
Other Designations	-

Publication Reference

- Effective therapeutic strategies in a pre-clinical mouse model of Charcot-Marie-tooth disease.

  Cristina Nuevo-Tapioles, Fulvio Santacatterina, Brenda Sánchez-Garrido, Cristina Núñez Arenas, Adrián Robledo-Bérgamo, Paula Martínez-Valero, Lara Cantarero, Beatriz Pardo, Janet Hoenicka, Michael P Murphy, Jorgina Satrústegui, Francesc Palau, José M Cuezva.

  Human Molecular Genetics 2021 Nov; 30(24):2441.

  Application: WB-Tr, Human, SH-SY5Y cells

- AMPK activation negatively regulates GDAP1, which influences metabolic processes and circadian gene expression in skeletal muscle.

  Lassiter DG, Sjögren RJO, Gabriel BM, Krook A, Zierath JR.

  Molecular Metabolism 2018 Oct; 16:12.

  Application: WB-Ce, Human, Skeletal muscle cells

- CMT-linked loss-of-function mutations in GDAP1 impair store-operated Ca2+ entry-stimulated respiration.

  González-Sánchez P, Pla-Martín D, Martínez-Valero P, Rueda CB, Calpena E, Del Arco A, Palau F, Satrústegui J.

  Scientific Reports 2017 Feb; 7:42993.

  Application: WB, Human, HEK 293T cells

- Silencing of the Charcot-Marie-Tooth disease-associated gene GDAP1 induces abnormal mitochondrial distribution and affects Ca2+ homeostasis by reducing store-operated Ca2+ entry.

  Pla-Martin D, Rueda CB, Estela A, Sanchez-Piris M, Gonzalez-Sanchez P, Traba J, de la Fuente S, Scorrano L, Renau-Piqueras J, Alvarez J, Satrustegui J, Palau F.

  Neurobiology of Disease 2013 Jul; 55:140.

  Application: WB-Ti, Mouse, Brain

- Charcot-Marie-Tooth-related Gene GDAP1 Complements Cell Cycle Delay at G2/M Phase in Saccharomyces cerevisiae fis1 Gene-defective Cells.

  Estela A, Pla-Martin D, Sanchez-Piris M, Sesaki H, Palau F.

  The Journal of Biological Chemistry 2011 Oct; 286(42):36777.

  Application: WB-Tr, Yeast, Yeast cells

- Mitochondrial complex I deficiency in GDAP1-related autosomal dominant Charcot-Marie-Tooth disease (CMT2K).

  Cassereau J, Chevrollier A, Gueguen N, Malinge MC, Letournel F, Nicolas G, Richard L, Ferre M, Verny C, Dubas F, Procaccio V, Amati-Bonneau P, Bonneau D, Reynier P.

  Neurogenetics 2008 Dec; 10(2):145.

  Application: WB, Human, Human skin fibroblasts

Disease

- Kidney Failure