

## Datasheet

### GART monoclonal antibody (M01), clone 4D6-1D5

**Catalog Number:** H00002618-M01

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against a full length recombinant GART.

**Clone Name:** 4D6-1D5

**Immunogen:** GART (AAH38958.1, 1 a.a. ~ 433 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Sequence:**

MAARVLIIGSGGREHTLAWKLAQSHHVKQVLVAPGNA  
GTACSEKISNTAISISDHTALAQFCKEKKIEFVVVGPEA  
PLAAGIVGNLRSAGVQCFGPTAEAAQLESSKRFAKEF  
MDRHGIPTAQWKAFTKPEEACSFILSADFPALVVKASG  
LAAGKGVIVAKSKEEACKAVQEIMQEKAFGAAGETIVIE  
ELLDGEEVSCLCFTDGTKVAPMPPAQDHRLLLEGDG  
GPNTGGMGAYCPAPQVSNLLLLKIKDRTLQRTVDGM  
QQEGTPYTGILYAGIMLTKNPKVLEFNCRFGDPECCQ  
VILPLLKSDLYEVIQSTLDGLLCTSLPVWLENHTALTVV  
MASKGYPGDYTKGVEITGFPEAQALGLEVFHAGTALK  
NGKVVTHGGRVLAVTAIRENLISALEEAKKGLAAIKFEG  
AIYRKDVGFRAIAFLQQPR

**Host:** Mouse

**Reactivity:** Human

**Applications:** ELISA, IF, IHC-P, IP, S-ELISA, WB-Ce,  
WB-Re, WB-Tr

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Isotype:** IgG1 kappa

**Storage Buffer:** In 1x PBS, pH 7.4

**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 2618

**Gene Symbol:** GART

**Gene Alias:** AIRS, GARS, GARTF, MGC47764, PAIS, PGFT, PRGS

**Gene Summary:** The protein encoded by this gene is a trifunctional polypeptide. It has phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase activity which is required for de novo purine biosynthesis. This enzyme is highly conserved in vertebrates. Alternative splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq]

**References:**

1. CRISPR-Cas9 induced mutations along de novo purine synthesis in HeLa cells result in accumulation of individual enzyme substrates and affect purinosome formation. Baresova V, Krijt M, Skopova V, Souckova O, Kmoch S, Zikanova M. Mol Genet Metab. 2016 Aug 24. [Epub ahead of print]
2. Mass Spectrometric/Bioinformatic Identification of a Protein Subset That Characterizes the Cellular Activity of Anticancer Peptides. Genovese F, Gualandi A, Taddia L, Marverti G, Pirondi S, Marraccini C, Perco P, Pela M, Guerrini R, Amoroso MR, Esposito F, Martello A, Ponterini G J Proteome Res. 2014 Sep 29.
3. Differentially expressed gene profile in the 6-hydroxy-dopamine-induced cell culture model of Parkinson's disease. Noelker C, Schwake M, Balzer-Geldsetzer M, Bacher M, Popp J, Schlegel J, Eggert K, Oertel WH, Klockgether T, Dodel R. Neurosci Lett. 2011 Dec 1.