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GGT1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant GGT1.
Catalog # AT2197a

Specification

GGT1 Antibody (monoclonal) (M01) - Product Information

Application	**IP, WB, IHC, E**
Primary Accession	P19440
Other Accession	NM_005265
Reactivity	**Human, Mouse**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**61410**

GGT1 Antibody (monoclonal) (M01) - Additional Information

Gene ID 2678

Other Names
Gamma-glutamyltranspeptidase 1, GGT 1, Gamma-glutamyltransferase 1, Glutathione hydrolase 1, Leukotriene-C4 hydrolase, CD224, Gamma-glutamyltranspeptidase 1 heavy chain, Gamma-glutamyltranspeptidase 1 light chain, GGT1, GGT

Target/Specificity
GGT1 (NP_005256, 381 a.a. ~ 470 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

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

Precautions
GGT1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

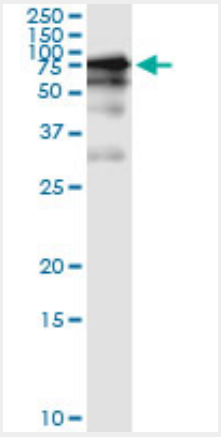
GGT1 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

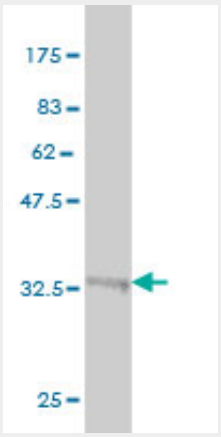
- Western Blot
- Blocking Peptides

- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GGT1 Antibody (monoclonal) (M01) - Images



Immunoprecipitation of GGT1 transfected lysate using anti-GGT1 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with GGT1 MaxPab rabbit polyclonal antibody.



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.64 KDa) .

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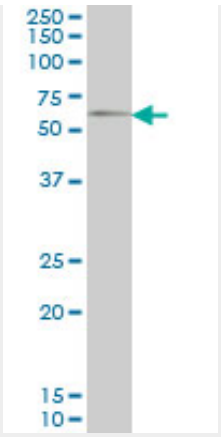
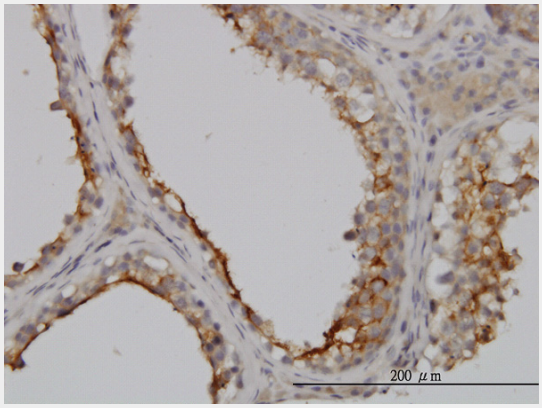
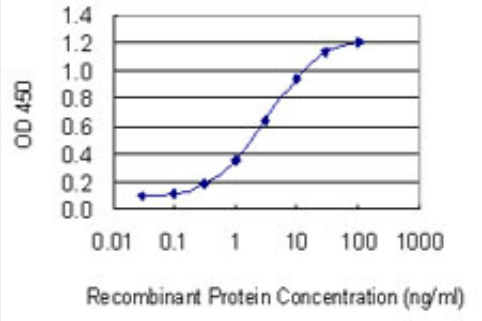


GGT1 monoclonal antibody (M01), clone 1F9 Western Blot analysis of GGT1 expression in NIH/3T3 ((Cat # AT2197a)



Immunoperoxidase of monoclonal antibody to GGT1 on formalin-fixed paraffin-embedded human testis. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged GGT1 is 0.1 ng/ml as a capture antibody.

GGT1 Antibody (monoclonal) (M01) - Background

The enzyme encoded by this gene catalyzes the transfer of the glutamyl moiety of glutathione to a variety of amino acids and dipeptide acceptors. The enzyme is composed of a heavy chain and a light chain, which are derived from a single precursor protein, and is present in tissues involved in absorption and secretion. This enzyme is a member of the gamma-glutamyltransferase protein family, of which many members have not yet been fully characterized and some of which may represent pseudogenes. This gene is classified as type I gamma-glutamyltransferase. Multiple alternatively spliced variants, encoding the same protein, have been identified.

GGT1 Antibody (monoclonal) (M01) - References

1.Polymorphisms in ABCB11 and ATP8B1 Associated with Development of Severe Intrahepatic Cholestasis in Hodgkin's Lymphoma.Blackmore L, Knisely AS, Hartley JL, McKay K, Gissen P, Marcus R, Shawcross DL.Journal of Clinical and Experimental Hepatology (2012), http://dx.doi.org/10.1016/j.jceh.2013.01.0052.A Quantitative Proteomic Analysis Uncovers the Relevance of CUL3 in Bladder Cancer Aggressiveness.Grau L, Luque-Garcia JL, Gonzalez-Peramato P, Theodorescu D, Palou J, Fernandez-Gomez JM, Sanchez-Carbayo M.PLoS One. 2013;8(1):e53328. doi: 10.1371/journal.pone.0053328. Epub 2013 Jan 8.3.Autocatalytic cleavage of human {gamma}-glutamyl transpeptidase is highly dependent on N-glycosylation at asparagine 95.West MB, Wickham S, Quinalty LM, Pavlovicz RE, Li C, Hanigan MH.J Biol Chem. 2011 Jun 28. [Epub ahead of print]4.Analysis of site-specific glycosylation of renal and hepatic ?^-glutamyl transpeptidase from normal human tissue.West MB, Segu ZM, Feasley CL, Kang P, Klouckova I, Li C, Novotny MV, West CM, Mechref Y, Hanigan MH.J Biol Chem. 2010 Sep 17;285(38):29511-24. Epub 2010 Jul 9.