10320 Camino Santa Fe, Suite G
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GCA Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full-length recombinant GCA.
Catalog # AT2171a

Specification

GCA Antibody (monoclonal) (M01) - Product Information

Application	**IF, WB, E**
Primary Accession	P28676
Other Accession	BC005214
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**24010**

GCA Antibody (monoclonal) (M01) - Additional Information

Gene ID 25801

Other Names
Grancalcin, GCA, GCL

Target/Specificity
GCA (AAH05214, 1 a.a. ~ 217 a.a) full-length 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
GCA Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

GCA Antibody (monoclonal) (M01) - Protocols

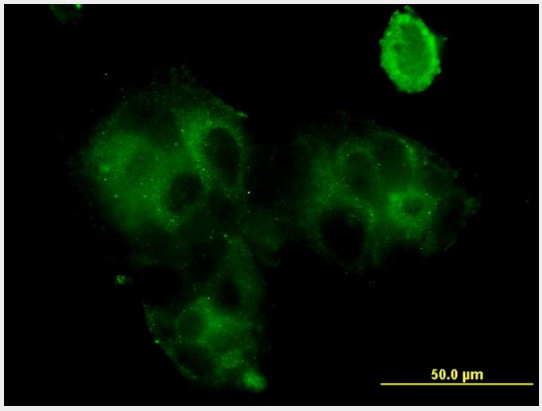
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

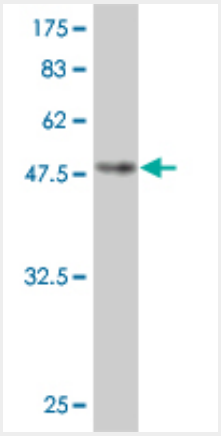
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- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

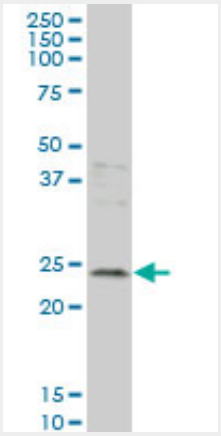
GCA Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to GCA on MCF-7 cell . [antibody concentration 10 ug/ml]

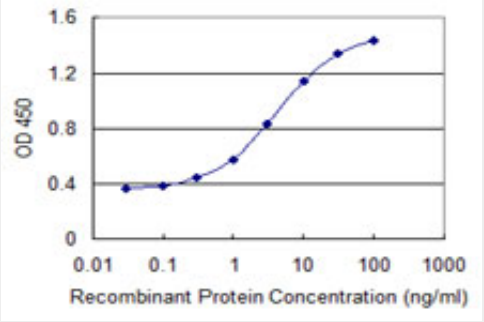


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (49.61 KDa) .



GCA monoclonal antibody (M01), clone 2F5 Western Blot analysis of GCA expression in MCF-7 ((Cat # AT2171a)

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Detection limit for recombinant GST tagged GCA is 0.03 ng/ml as a capture antibody.

GCA Antibody (monoclonal) (M01) - Background

This gene product, grancalcin, is a calcium-binding protein abundant in neutrophils and macrophages. It belongs to the penta-EF-hand subfamily of proteins which includes sorcin, calpain, and ALG-2. Grancalcin localization is dependent upon calcium and magnesium. In the absence of divalent cation, grancalcin localizes to the cytosolic fraction; with magnesium alone, it partitions with the granule fraction; and in the presence of magnesium and calcium, it associates with both the granule and membrane fractions, suggesting a role for grancalcin in granule-membrane fusion and degranulation.

GCA Antibody (monoclonal) (M01) - References

New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.IFIH1-GCA-KCNH7 locus is not associated with genetic susceptibility to multiple sclerosis in French patients. Couturier N, et al. Eur J Hum Genet, 2009 Jun. PMID 19156166.IFIH1-GCA-KCNH7 locus: influence on multiple sclerosis risk. Mart?nez A, et al. Eur J Hum Genet, 2008 Jul. PMID 18285833.The association between the IFIH1 locus and type 1 diabetes. Qu HQ, et al. Diabetologia, 2008 Mar. PMID 18071670.A protein-protein interaction network for human inherited ataxias and disorders of Purkinje cell degeneration. Lim J, et al. Cell, 2006 May 19. PMID 16713569.