

**AKAP12 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant AKAP12.****Catalog # AT1083a****Specification**

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**AKAP12 Antibody (monoclonal) (M01) - Product Information**

Application	WB, E
Primary Accession	<a href="#">Q02952</a>
Other Accession	<a href="#">NM_005100</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	191482

**AKAP12 Antibody (monoclonal) (M01) - Additional Information****Gene ID** 9590**Other Names**

A-kinase anchor protein 12, AKAP-12, A-kinase anchor protein 250 kDa, AKAP 250, Gravin, Myasthenia gravis autoantigen, AKAP12, AKAP250

**Target/Specificity**

AKAP12 (NP\_005091, 1675 a.a. ~ 1782 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**

AKAP12 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

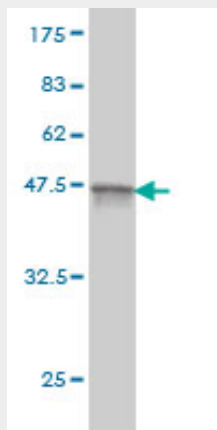
**AKAP12 Antibody (monoclonal) (M01) - Protocols**

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

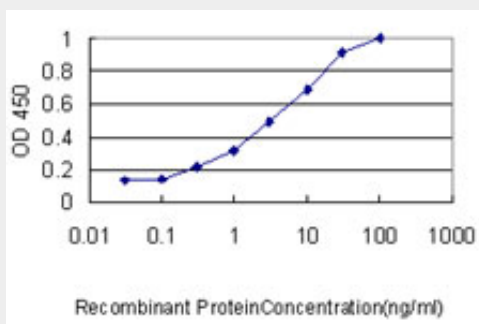
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### AKAP12 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.62 KDa) .



Detection limit for recombinant GST tagged AKAP12 is approximately 0.03ng/ml as a capture antibody.

### AKAP12 Antibody (monoclonal) (M01) - Background

The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. The encoded protein is expressed in endothelial cells, cultured fibroblasts, and osteosarcoma cells. It associates with protein kinases A and C and phosphatase, and serves as a scaffold protein in signal transduction. This protein and RII PKA colocalize at the cell periphery. This protein is a cell growth-related protein. Antibodies to this protein can be produced by patients with myasthenia gravis. Alternative splicing of this gene results in two transcript variants encoding different isoforms.

### AKAP12 Antibody (monoclonal) (M01) - References

1. iTRAQ analysis of colorectal cancer cell lines suggests Drebrin (DBN1) is overexpressed during liver metastasis. Lin Q, Tan HT, Lim TK, Khoo A, Lim KH, Chung MC. *Proteomics*. 2014 Jun;14(11):1434-43. doi: 10.1002/pmic.201300462. Epub 2014 Apr 17.  
2. Quantitative and temporal proteome analysis of butyrate-treated colorectal cancer cells. Tan HT, Tan S, Lin Q, Lim TK, Hew CL,

Chung MC.Mol Cell Proteomics. 2008 Jun;7(6):1174-85. Epub 2008 Mar 14.