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# anti-AKAP12 antibody (AA 701-900)





#### Overview

Quantity:	100 μL
Target:	AKAP12
Binding Specificity:	AA 701-900
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKAP12 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

#### **Product Details**

Immunogen:	KLH conjugated synthetic peptide derived from human of human AKAP12
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Human,Dog
Purification:	Purified by Protein A.

### **Target Details**

Target: AKAP12
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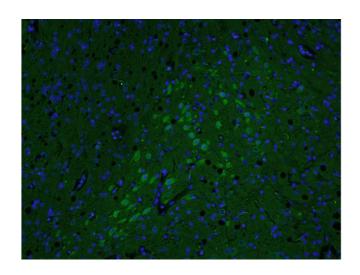
## **Target Details**

Alternative Name:	AKAP12/Gravin (AKAP12 Products)
Background:	Synonyms: A kinase PRKA anchor protein gravin 12, A kinase Anchor Protein 12, A kinase
	anchor protein 250 kDa, AKAP 12, AKAP 250, AKAP250, DKFZp686M0430, DKFZp686O0331,
	Gercelin, Gravin, Kinase scaffold protein gravin, Myasthenia gravis autoantigen gravin, Srcs5,
	SSeCKS, Tsga12.
	Background: Gravin (also known as A Kinase Anchor Protein 12, AKAP12) was cloned from a
	cDNA expression library screened with serum, from a myasthenia gravis patient. to Gravin were
	found in 22 out of 72 myasthemia gravis patients and absent in sera of normal individuals. This
	protein is a myristoylated high molecular weight cytoplasmic protein expressed in endothelial
	cells, cultured fibroblasts and osteosarcoma cells and highly expressed in the brain. Gravin can
	bind kinases like PKA and PKC by different domains of the protein and can localize these
	kinases to specific domains in the cell. Upon differentiation of NT2 cells to neurons (NT2 N),
	Gravin expression is up regulated and enriched at the inner peripheral cortex in close proximity
	to the plasma membrane. In differentiated cells, gravin is co-localized with PKCbII, PKCa and
	PKA. Decreased binding of PKCa to gravin was found after activation of PKC.
Gene ID:	9590
Pathways:	cAMP Metabolic Process
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Format: Concentration:	Liquid 1 μg/μL

#### Handling

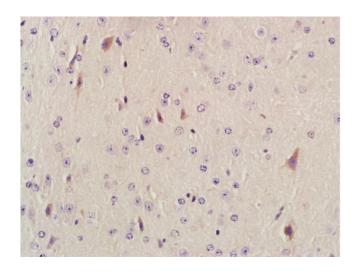
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

#### **Images**



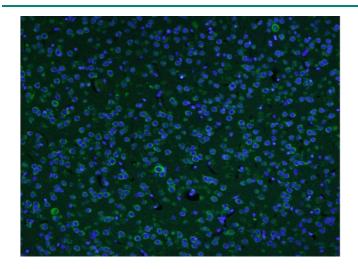
#### Immunofluorescence (Paraffin-embedded Sections)

**Image 1.** Paraformaldehyde-fixed, paraffin embedded rat brain; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with AKAP12 Polyclonal Antibody, Unconjugated (bs-1381R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (bs-0295G-FITC) for 90 minutes, and DAPI for nuclei staining.



#### **Immunohistochemistry (Paraffin-embedded Sections)**

**Image 2.** Paraformaldehyde-fixed, paraffin embedded mouse brain; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with AKAP12 Polyclonal Antibody, Unconjugated (bs-1381R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody for 20 minutes and DAB staining.



#### **Immunohistochemistry (Paraffin-embedded Sections)**

**Image 3.** Paraformaldehyde-fixed, paraffin embedded Mouse brain Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes Blocking buffer (normal goat serum) at 37°C for 30min Antibody incubation with AKAP12/Gravin Polyclonal Antibody, Unconjugated at 1:400 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (-FITC) for 90 minutes, and DAPI for nuclei staining.