

## Rabbit AKAP10 Polyclonal Antibody | anti-AKAP10 antibody

AKAP10 Antibody

|                               |                       |                                        |                                            |
|-------------------------------|-----------------------|----------------------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA320966</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|--------------------------------------------|

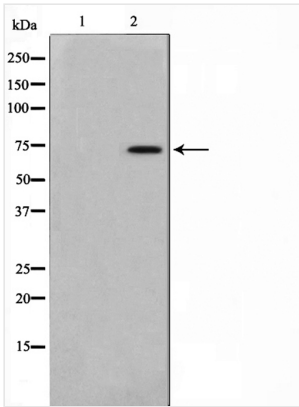
### PRODUCT SYNONYMS

AKAP10; Polyclonal Antibody; AKAP10 Antibody; 1500031L16Rik; A kinase (PRKA) anchor protein 10; A kinase anchor protein 10; A kinase anchor protein 10 mitochondrial; A-kinase anchor protein 10; AKA10\_HUMAN; akap 10; AKAP-10; B130049N18Rik; D AKAP 2; D-AKAP-2; dakap 2; dakap2; Dual specific A kinase anchoring protein 2; Dual specificity A kinase-anchoring protein 2; mgc9410; MGC9414; Mitochondrial A kinase PPKA anchor protein 10; mitochondrial; prka 10; PRKA10; Protein A kinase anchoring protein 10; Protein A kinase anchoring protein 10 mitochondrial precursor; Protein kinase A anchoring protein 10; Protein kinase A-anchoring protein 10; anti-AKAP10 antibody

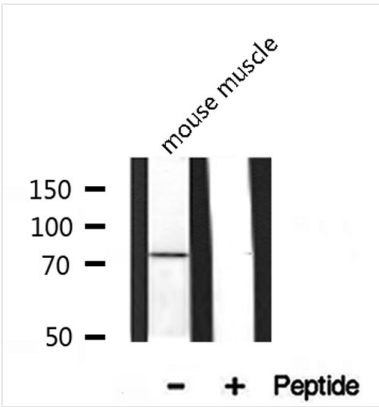
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                               |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                        |
| Reactivity                                       | Human, Mouse, Rat                                                                                             |
| Clonality                                        | Polyclonal                                                                                                    |
| Isotype                                          | IgG                                                                                                           |
| Specificity                                      | AKAP10 antibody detects endogenous levels of total AKAP10                                                     |
| Purity/Purification                              | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                 |
| Form/Format                                      | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                 |
| Concentration                                    | 1mg/ml (varies by lot)                                                                                        |
| Sequence Length                                  | 662                                                                                                           |
| Applicable Applications for anti-AKAP10 antibody | ELISA, WB (Western Blot)                                                                                      |
| Immunogen                                        | A synthesized peptide derived from human AKAP10                                                               |
| Subcellular Location                             | Mitochondrion. Membrane. Cytoplasm. Predominantly mitochondrial but also membrane associated and cytoplasmic. |
| Predicted Cross Reactivity                       | <b>Bovine, Horse, Sheep, Rabbit, Dog</b>                                                                      |
| Similarity                                       | Bovine (91%), Horse (100%), Sheep (91%), Rabbit (100%), Dog (100%)                                            |
| Conjugation                                      | Unconjugated                                                                                                  |
| Preparation and Storage                          | Store at -20 degree C. Stable for 12 months from date of receipt.                                             |

IMAGES



**WB (Western Blot)**  
Western blot analysis on mouse brain cell lysate using AKAP10 Antibody. The lane on the left is treated with the antigen-specific peptide.



**WB (Western Blot)**  
Western blot analysis on mouse muscle lysate using AKAP10 Antibody

ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-AKAP10 antibody</b> | <p>Description: AKAP10 Differentially targeted protein that binds to type I and II regulatory subunits of protein kinase A and anchors them to the mitochondria or the plasma membrane. Although the physiological relevance between PKA and AKAPS with mitochondria is not fully understood, one idea is that BAD, a proapoptotic member, is phosphorylated and inactivated by mitochondria-anchored PKA.</p> <p>Function: Differentially targeted protein that binds to type I and II regulatory subunits of protein kinase A and anchors them to the mitochondria or the plasma membrane. Although the physiological relevance between PKA and AKAPS with mitochondria is not fully understood, one idea is that BAD, a proapoptotic member, is phosphorylated and inactivated by mitochondria-anchored PKA. It cannot be excluded too that it may facilitate PKA as well as G protein signal transduction, by acting as an adapter for assembling multiprotein complexes. With its RGS domain, it could lead to the interaction to G-alpha proteins, providing a link between the signaling machinery and the downstream kinase (By similarity).</p> <p>Similarity: RII-alpha binding site, predicted to form an amphipathic helix, could participate in protein-protein interactions with a complementary surface on the R-subunit dimer.</p> |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                     |
|----------------------------------|-----------------------------------------------------|
| NCBI GI #                        | 21493033                                            |
| NCBI GeneID                      | 11216                                               |
| NCBI Accession #                 | NP_009133.2                                         |
| NCBI GenBank Nucleotide #        | NM_007202.3                                         |
| UniProt Accession #              | O43572; Q96AJ7; B2R650                              |
| Molecular Weight                 | Observed: 73 kDa<br>Predicted: 74 kDa               |
| NCBI Official Full Name          | A-kinase anchor protein 10, mitochondrial isoform 1 |
| NCBI Official Synonym Full Names | A-kinase anchoring protein 10                       |
| NCBI Official Symbol             | AKAP10                                              |
| NCBI Official Synonym Symbols    | PRKA10; AKAP-10; D-AKAP2; D-AKAP-2                  |
| NCBI Protein Information         | A-kinase anchor protein 10, mitochondrial           |
| UniProt Protein Name             | A-kinase anchor protein 10, mitochondrial           |
| UniProt Gene Name                | AKAP10                                              |
| UniProt Synonym Gene Names       | AKAP-10; D-AKAP-2; PRKA10                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/akap10-antibody-western-blot-elisa/320966>