

Datasheet for ABIN2775174  
**anti-AKAP5 antibody (Middle Region)**



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1 Image

## Overview

Quantity:	100 µL
Target:	AKAP5
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Mouse, Cow, Dog, Pig, Saccharomyces cerevisiae, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AKAP5 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human AKAP5
Sequence:	KQFLISAENE QVGVFANDNG FEDRTSEQYE TLLIETASSL VKNAIQLSIE
Predicted Reactivity:	Cow: 86%, Dog: 86%, Horse: 86%, Human: 100%, Mouse: 79%, Pig: 86%, Rat: 79%, Yeast: 82%
Characteristics:	This is a rabbit polyclonal antibody against AKAP5. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	AKAP5
Alternative Name:	AKAP5 ( <a href="#">AKAP5 Products</a> )

## Target Details

Target Type:	Viral Protein
Background:	<p>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. AKAP5 is a member of the AKAP family. It binds to the RII-beta regulatory subunit of PKA, and also to protein kinase C and the phosphatase calcineurin. It is predominantly expressed in cerebral cortex and may anchor the PKA protein at postsynaptic densities (PSD) and be involved in the regulation of postsynaptic events. It is also expressed in T lymphocytes and may function to inhibit interleukin-2 transcription by disrupting calcineurin-dependent dephosphorylation of NFAT.</p> <p>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 binds to the RII-beta regulatory subunit of PKA, and also to protein kinase C and the phosphatase calcineurin. It is predominantly expressed in cerebral cortex and may anchor the PKA protein at postsynaptic densities (PSD) and be involved in the regulation of postsynaptic events. It is also expressed in T lymphocytes and may function to inhibit interleukin-2 transcription by disrupting calcineurin-dependent dephosphorylation of NFAT.</p> <p>Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.</p> <p>Alias Symbols: AKAP75, AKAP79, H21</p> <p>Protein Interaction Partner: PRKACB, PRKACA, UBC, PRKCA, CALM1, GABRB1, GABRB3, IQGAP1, DLG4, DLG1, KCNJ2, PRKAR2B, PRKAR2A, RET, PPP3CA, ADRB2, Gria1, Grin2b,</p> <p>Protein Size: 427</p>
Molecular Weight:	47 kDa
Gene ID:	9495
NCBI Accession:	<a href="#">NM_004857</a> , <a href="#">NP_004848</a>
UniProt:	<a href="#">P24588</a>
Pathways:	<a href="#">cAMP Metabolic Process</a>

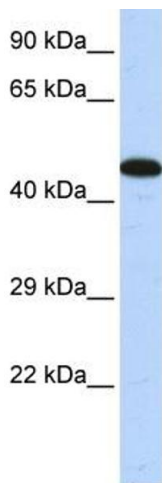
## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 427 AA
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Images



### Western Blotting

**Image 1.** WB Suggested Anti-AKAP5 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:1562500 Positive Control: Human Muscle