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Datasheet for ABIN4996264

## anti-AKAP5 antibody (AA 611-714) (Alexa Fluor 680)

### Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | AKAP5  |
| Binding Specificity: | AA 611-714   |
| Reactivity:          | Rat  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This AKAP5 antibody is conjugated to Alexa Fluor 680   |
| Application:         | Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

### Product Details

|                       |   |
|-----------------------|---|
| Immunogen:            | KLH conjugated synthetic peptide derived from human AKAP5 |
| Isotype:              | IgG   |
| Cross-Reactivity:     | Rat   |
| Predicted Reactivity: | Human, Mouse, Dog, Cow, Pig, Horse, Rabbit                |
| Purification:         | Purified by Protein A.                                    |

### Target Details

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

## Target Details

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|              |  |
|--------------|--|
| Target Type: | Viral Protein  |
| Background:  | <p>Synonyms: A kinase PRKA anchor protein 5, A kinase anchor protein 5, A kinase anchor protein 79 kDa, A kinase anchoring protein 75/79, A-kinase anchor protein 5, A-kinase anchor protein 79 kDa, AKAP 5, AKAP 75, AKAP 79, AKAP-5, Akap5, AKAP5_HUMAN, AKAP75, AKAP79, cAMP dependent protein kinase regulatory subunit II high affinity binding protein, cAMP-dependent protein kinase regulatory subunit II high affinity-binding protein, H21.</p> <p>Background: The type II cAMP-protein kinase (PKA) is a multifunctional kinase with a broad range of substrates (1). Specificity of PKA signaling is thought to be mediated by the compartmentalization of the kinase to specific sites within the cell. To maintain this specific localization, the R subunit (RII) of PKA interacts with specific RII-anchoring proteins. This family of proteins has been designated A-kinase anchoring proteins (AKAP) (1-3). Members of this family, including MAP2 (microtubule-associated protein 2), neuronally expressed AKAP 79 and AKAP 150, and the DNA binding AKAP 95, display differential tissue specificity and localization (4-6). Evidence suggests that AKAP 79 and AKAP 150 are both capable of anchoring PKA to postsynaptic densities (PSD), which are a network of proteins located on the internal surfaces of excitatory synapses.</p> |
| Gene ID:     | 9495   |
| UniProt:     | <a href="#">P24588</a>   |
| Pathways:    | <a href="#">cAMP Metabolic Process</a>   |

## Application Details

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|                    |  |
|--------------------|--|
| Application Notes: | IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
| Restrictions:      | For Research Use only  |

## Handling

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|                |   |
|----------------|---|
| Format:        | Liquid  |
| Concentration: | 1 µg/µL   |
| Buffer:        | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. |
| Preservative:  | ProClin   |

## Handling

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|                    |  |
|--------------------|--|
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage:           | -20 °C   |
| Storage Comment:   | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.                                  |
| Expiry Date:       | 12 months  |