

**Anti-QSK Antibody**  
Rabbit polyclonal antibody to QSK  
Catalog # AP60778

### Specification

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#### Anti-QSK Antibody - Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">O9Y2K2</a> |
| Other Accession   | <a href="#">Q6P4S6</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 144851                 |

#### Anti-QSK Antibody - Additional Information

Gene ID 23387

#### Other Names

KIAA0999; QSK; Serine/threonine-protein kinase SIK3; Salt-inducible kinase 3; SIK-3; Serine/threonine-protein kinase QSK

#### Target/Specificity

Recognizes endogenous levels of QSK protein.

#### Dilution

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200)

#### Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

#### Storage

Store at -20 °C. Stable for 12 months from date of receipt

#### Anti-QSK Antibody - Protein Information

Name SIK3 ([HGNC:29165](#))

#### Function

Positive regulator of mTOR signaling that functions by triggering the degradation of DEPTOR, an mTOR inhibitor. Involved in the dynamic regulation of mTOR signaling in chondrocyte differentiation during skeletogenesis (PubMed:<a href="http://www.uniprot.org/citations/30232230" target="\_blank">30232230</a>). Negatively regulates cAMP signaling pathway possibly by acting on CRTC2/TORC2 and CRTC3/TORC3 (Probable). Prevents HDAC4 translocation to the nucleus (By similarity).

#### Cellular Location

Cytoplasm. Note=Locates to punctate structures within the cytoplasm on binding to YWHAZ.

#### **Tissue Location**

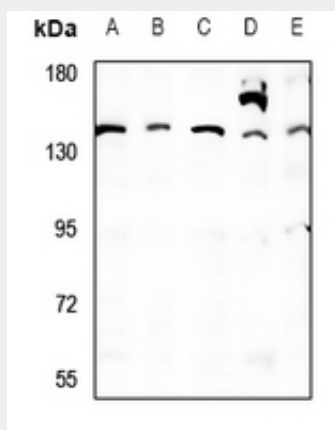
Expressed in chondrocytes.

#### **Anti-QSK Antibody - Protocols**

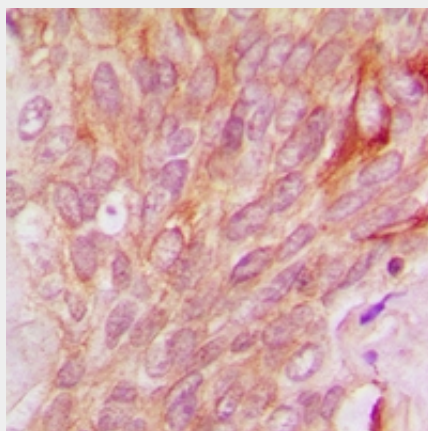
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Anti-QSK Antibody - Images**



Western blot analysis of QSK expression in LO2 (A), MCF7 (B), A549 (C), CT26 (D), PC12 (E) whole cell lysates.



Immunohistochemical analysis of QSK staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room

temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

#### **Anti-QSK Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human QSK. The exact sequence is proprietary.