

Product datasheet for **TA306412**

BRSK2 Rabbit Polyclonal Antibody

Product data:

| | |
|------------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | IF, IHC, WB |
| Recommended Dilution: | WB: 0.5 - 2 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | BRSK2 antibody was raised against a 23 amino acid peptide from near the carboxy terminus of human BRSK2. |
| Formulation: | PBS containing 0.02% sodium azide. |
| Concentration: | 1ug/ul |
| Purification: | Affinity chromatography purified via peptide column |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Gene Name: | BR serine/threonine kinase 2 |
| Database Link: | NP_003948 Entrez Gene 75770 Mouse Entrez Gene 9024 Human Q8IWQ3 |



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Background:

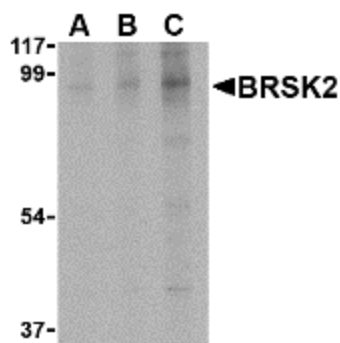
BRSK2 was initially identified through a computer screen of the human genome and shows significant homology to the *C. elegans* neuronal cell polarity regulator SAD1. BRSK2 is expressed in the brain and to a lesser extent in the testes. BRSK2 is a member of the AMP-activated protein kinase subfamily and can be activated by the tumor suppressor kinase LKB1. More recently, it has been shown that both BRSK2 and the related protein BRSK1 are required for mammalian neuronal polarization. While BRSK1- and BRSK2-null mice were viable, double-mutant mice died within two hours of birth. Neurons from these mice showed uniformly-sized neurites as opposed to the normal long axon and multiple shorter dendrites. These neurites also displayed both axonal and dendritic markers. BRSK2 has also been shown to be an autoantigen in paraneoplastic limbic encephalitis. At least four isoforms of BRSK2 are known to exist.

Synonyms:

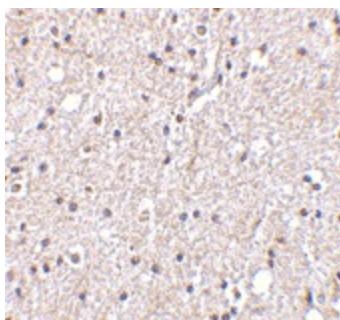
C11orf7; PEN11B; SAD1; SADA; STK29

Protein Families:

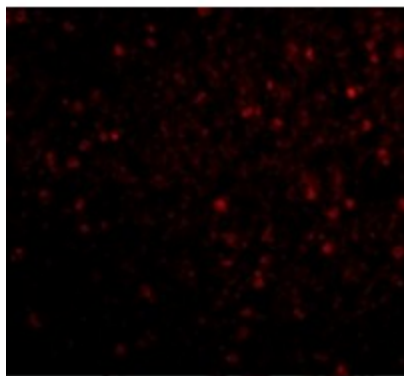
Druggable Genome, Protein Kinase

Product images:


Western blot analysis of BRSK2 in human brain tissue lysate with BRSK2 antibody at (A) 0.5, (B) 1 and (C) 2 ug/ml.



Immunohistochemistry of BRSK2 in human brain tissue with BRSK2 antibody at 5 ug/ml.



Immunofluorescence of BRSK2 in Human Brain cells with BRSK2 antibody at 20 ug/mL.