

Recombinant Human BRSK1

Catalog No: #GP12648



Package Size: #GP12648-1 100ug

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Description

Product Name	Recombinant Human BRSK1
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 579-778 amino acids of human BRSK1
Target Name	BR serine/threonine kinase 1
Other Names	hSAD1
Accession No.	Swissprot:Q8TDC3Gene Accession:BC016681
Uniprot	Q8TDC3
GeneID	84446;
Storage	-20~-80°C, pH 7.6 PBS

Background

The phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions in eukaryotes, including cell division, homeostasis and apoptosis. A group of proteins that are intimately involved in this process are the serine/threonine (Ser/Thr) protein kinases. BRSK1 (BR serine/threonine-protein kinase 1), also known as SAD1, is a 794 amino acid protein that localizes to both the nucleus and the cytoplasm and contains one UBA domain and one protein kinase domain. Expressed in a variety of tissues with highest expression in testis and brain, BRSK1 uses magnesium as a cofactor to catalyze the ATP-dependent phosphorylation of target proteins, including Wee 1 and Cdc25B. Via its kinase activity toward proteins that are involved in microtubule assembly, BRSK1 plays an essential role in neuronal polarization and may be involved in regulating cell cycle arrest in response to DNA damage. Two isoforms of BRSK1 exist due to alternative splicing events.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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