

BRSK1 RABBIT PAB

Cat.#: S212120

Product Name: Anti-BRSK1 Rabbit Polyclonal Antibody

Synonyms: hSAD1

UNIPROT ID: Q8TDC3 (Gene Accession - BC016681)

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.

Immunogen: Fusion protein of human BRSK1

Applications: ELISA, IHC

Recommended Dilutions: IHC: 50-300; ELISA: 5000-10000

Host Species: Rabbit

Clonality: Rabbit Polyclonal

Isotype: Immunogen-specific rabbit IgG

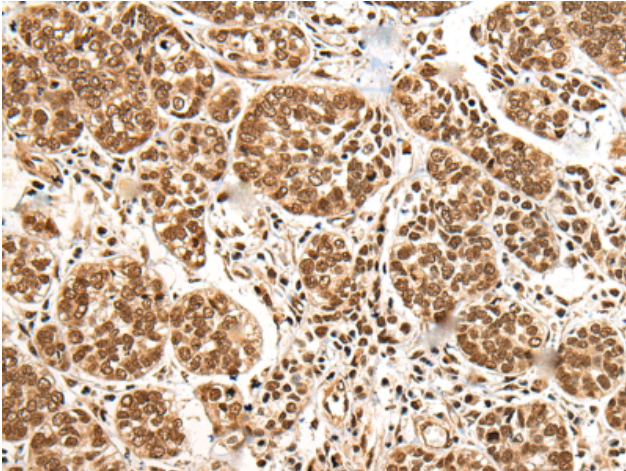
Purification: Antigen affinity purification

Species Reactivity: Human, Mouse, Rat

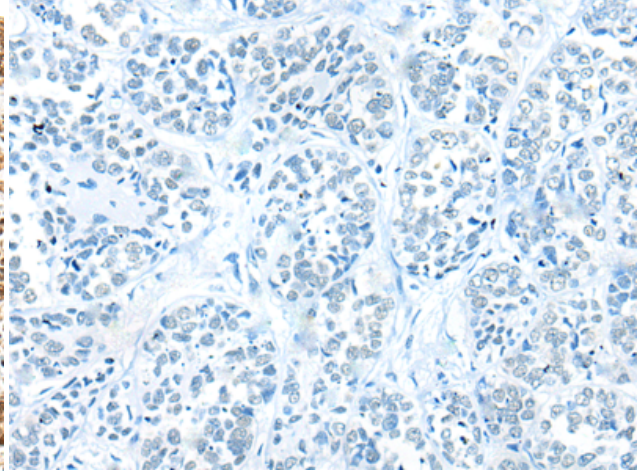
Constituents: PBS (without Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

Research Areas: Cancer

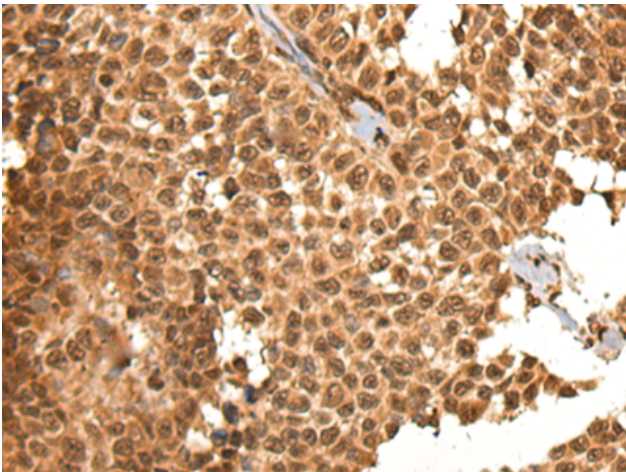
Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



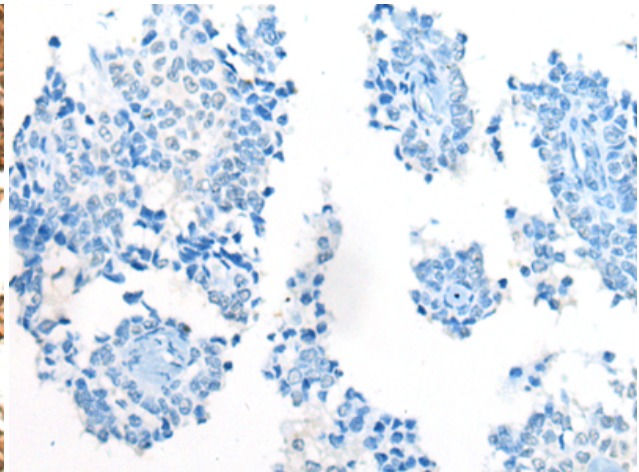
Immunohistochemistry analysis of paraffin embedded Human esophagus cancer tissue using 212120 (BRSK1 Antibody) at a dilution of 1/95 (Cytoplasm and Nucleus).



In comparison with the IHC on the left, the same paraffin-embedded Human esophagus cancer tissue is first treated with the fusion protein and then with 212120 (Anti-BRSK1 Antibody) at dilution 1/95.



The image on the left is immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using 212120 (Anti-BRSK1 Antibody) at a dilution of 1/95.



In comparison with the IHC on the left, the same paraffin-embedded Human ovarian cancer tissue is first treated with fusion protein and then with D124280 (Anti-BRSK1 Antibody) at dilution 1/95.