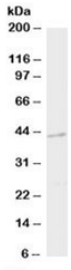
DAPK2 Antibody (R34353)

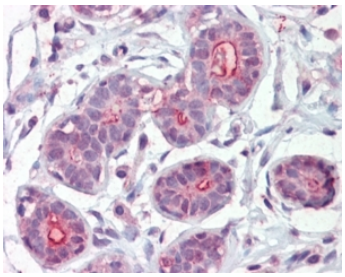
Catalog No.	Formulation	Size
R34353-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Predicted Reactivity	Rat, Dog, Pig
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	23604
Applications	Western blot: 2-6ug/ml Immunohistochemistry (FFPE): 2-4ug/ml ELISA (peptide) LOD: 1:32000
Limitations	This DAPK2 antibody is available for research use only.



DAPK2 Antibody Mouse Brain WB. Western blot analysis of mouse brain tissue lysate using DAPK2 antibody demonstrates detection of an immunoreactive band at approximately 43 kDa, consistent with the predicted molecular weight of Death Associated Protein Kinase 2 (DAPK2). DAPK2 is a calcium/calmodulin-regulated serine/threonine kinase that participates in intracellular signaling pathways involved in apoptosis, cellular stress responses, autophagy regulation, and maintenance of cellular homeostasis. The observed band supports expression of DAPK2 in neural tissue and demonstrates the utility of this antibody for studies of kinase-mediated signaling, programmed cell death pathways, and stress-responsive regulatory mechanisms. Western blot was performed using 2 ug/ml primary antibody. Predicted/observed molecular weight: ~43 kDa.



DAPK2 Antibody Human Breast IHC. Immunohistochemistry staining of FFPE human breast tissue using DAPK2 antibody demonstrates predominantly cytoplasmic staining within glandular epithelial cell populations, consistent with expression of Death Associated Protein Kinase 2 (DAPK2). DAPK2 is a calcium/calmodulin-regulated serine/threonine kinase that participates in signaling pathways involved in apoptosis, cellular stress responses, autophagy regulation, and maintenance of tissue homeostasis. The observed staining pattern is consistent with the intracellular localization expected for a signaling kinase and supports the utility of DAPK2 antibody for studies of kinase-mediated regulatory pathways and programmed cell death signaling. HIER: steamed with pH6 citrate buffer. Detection was performed using an AP staining system.

Description

DAPK2 Antibody is designed for the detection and study of DAPK2 (Death Associated Protein Kinase 2), a calcium/calmodulin-regulated serine/threonine kinase that functions as an important regulator of intracellular signaling pathways. DAPK2 belongs to the death-associated protein kinase family, a group of enzymes involved in coordinating cellular responses to developmental cues, environmental stress, and physiologic signaling events. Through its kinase activity, DAPK2 contributes to regulatory networks that influence cellular homeostasis, adaptation, and maintenance of normal tissue function.

As a signaling kinase, DAPK2 participates in pathways that govern cellular growth, differentiation, stress responses, and programmed cell fate decisions. Protein kinases serve as critical intermediates in signal transduction, transmitting information from extracellular stimuli to intracellular effector mechanisms. DAPK2 helps integrate these signals by modulating downstream pathways involved in cellular regulation and adaptation to changing physiologic conditions.

DAPK2 has been widely studied for its role in apoptosis-associated signaling, autophagy regulation, and cellular stress response pathways. These processes are essential for maintaining tissue integrity and ensuring appropriate cellular responses to damage, metabolic stress, and developmental signals. By participating in these highly regulated networks, DAPK2 contributes to the balance between cellular survival and controlled cellular turnover.

Beyond its involvement in programmed cell death pathways, DAPK2 has attracted significant interest in research involving signal transduction, developmental biology, immune regulation, and disease-associated signaling mechanisms. The protein functions within broader kinase-dependent regulatory systems that coordinate communication between intracellular signaling pathways and environmental cues. As a result, DAPK2 remains an important target for investigations examining how cells respond to physiologic challenges and maintain homeostasis.

DAPK2 Antibody is useful for investigating kinase signaling, apoptosis regulation, cellular stress responses, autophagy-associated pathways, and intracellular signal transduction mechanisms. Researchers utilize DAPK2 Antibody reagents to evaluate protein expression patterns and study molecular pathways governing cellular adaptation, tissue homeostasis, and kinase-mediated regulatory processes.

Learn more about DAPK2 and its role in programmed cell death, cellular stress responses, and intracellular signal transduction on our DAPK2 Antibody / Apoptosis Regulatory Kinase Antibody page.

Application Notes

Optimal dilution of the DAPK2 antibody should be determined by the researcher.

Immunogen

Amino acids KALHPRRRSSTS were used as the immunogen for this DAPK2 antibody. This sequence is specific to the alpha isoform.

Storage

Aliquot and store the DAPK2 antibody at -20oC.

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