BASP1 Antibody / Brain acid soluble protein 1 (F55071)

Catalog No.	Formulation	Size
F55071-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F55071-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-2 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P80723
Applications	Western blot: 1:500-1:1000
Limitations	This BASP1 antibody is available for research use only.



Western blot testing of human U-251 MG cell lysate with BASP1 antibody. Predicted molecular weight ~23 kDa and ~18 kDa (two isoforms). BASP1 may be observed at higher molecular weights due to SUMOylation. The amount of SDS in SDS-PAGE may also affect the observed size.

Description

BASP1, or Brain acid soluble protein 1, and also known as NAP22 or CAP-23, is a highly conserved protein found in the brain and nervous system. It plays a pivotal role in regulating neuronal growth, synaptic plasticity, and cell signaling. BASP1 is known to interact with various cellular proteins and lipids, influencing processes such as axonal growth, neurotransmitter release, and neuroprotection. Research has shown that BASP1 is involved in a multitude of cellular processes that are essential for proper brain function. It plays a crucial role in promoting dendritic branching, axonal outgrowth, and neuronal migration during brain development. Additionally, BASP1 is implicated in regulating the release of neurotransmitters such as dopamine and acetylcholine, which are crucial for cognitive functions. Given its pivotal role in

brain function, BASP1 dysregulation has been linked to various neurological disorders. Studies have shown that abnormal levels of BASP1 expression are associated with conditions such as Alzheimer's disease, Parkinson's disease, and schizophrenia.

Application Notes

Titration of the BASP1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 123-150 from the human protein was used as the immunogen for this BASP1 antibody.

Storage

Aliquot the BASP1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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