abcam

ab230522

Anti-CASC4 antibody - C-terminal

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Polyclonal
Immunogen	Synthetic Peptide within Human GOLM2 aa 300-400 conjugated to Keyhole Limpet Haemocyanin. The exact immunogen used to generate this antibody is proprietary information. Database link Q6P4E1
Purification technique	Affinity purification Protein A

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.

Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	-
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information GOLM2

Storage

Shipped at conditions	Blue Ice

Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	CASC4 short for Cancer Susceptibility Candidate 4 is a protein involved in cell processes with a mass of approximately 87 kDa. It is expressed in various tissues with higher levels observed in specific cancer types. Its exact mechanical role in cells includes interactions and binding to other cellular elements influencing cell functions and stability. Researchers usually study this protein by its official name due to its relevance in cancer studies and its interaction potentials in cellular mechanisms.
Biological function summary	The protein plays a role in cellular growth and regulation. It is part of a larger complex that includes other signaling and structural proteins supporting its function in maintaining proper cellular environments. It may help ensure the cell cycle progresses smoothly influencing cell survival and replication. Its expression suggests it might help modulate responses under stress or during abnormal growth which can have implications for understanding certain cancer behaviors.
Pathways	CASC4 engages in cellular signaling and growth regulation pathways specifically those related to cancer biology. It is involved in pathways such as the PI3K/AKT pathway which is important for cell proliferation and survival. In these networks CASC4 connects with other proteins like AKT potentially influencing the pathway's outcomes on cell fate decisions and tumor progression. This interaction suggests that CASC4 may have a role in modifying signaling outcomes depending on different cellular contexts.
Associated diseases and disorders	Research indicates that CASC4 is associated with cancer progression and certain subtypes like breast and colorectal cancers. These associations hint that abnormal expression or functioning of CASC4 could contribute to oncogenic processes. It often interacts with proteins like PTEN in these disease contexts emphasizing its potential impact on tumor suppression or promotion. Understanding these interactions could prove beneficial in developing targeted therapies or diagnostic markers for these cancers.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

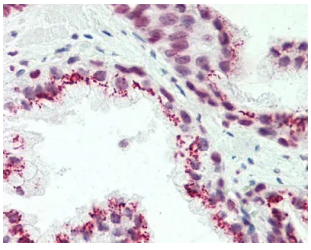
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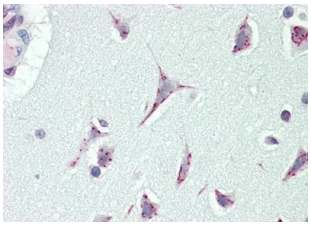
4 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CASC4 antibody - C-terminal (ab230522)

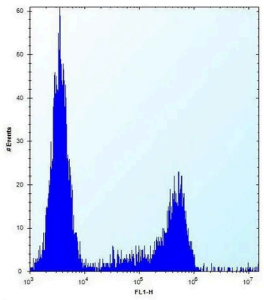
CASC4 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CASC4 antibody

Formalin-fixed, paraffin-embedded human prostate tissue stained for CASC4 with ab230522 at a 1:100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CASC4 antibody - C-terminal (ab230522)

Formalin-fixed, paraffin-embedded human brain cortex tissue stained for CASC4 with ab230522 at a 1:100 dilution in immunohistochemical analysis.



Flow Cytometry (Intracellular) - Anti-CASC4 antibody - C-terminal (ab230522)

CASC4 Flow Cytometry (Intracellular) staining using rabbit Anti-CASC4 antibody

Intracellular Flow Cytometry analysis of Neuro-2a (Mouse neuroblastoma cell line) cells, labeling CASC4 with ab230522 at a 1/10 dilution (right side) compared to a negative control of (left side). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.



Western blot - Anti-CASC4 antibody - C-terminal (ab230522)

All lanes:
Western blot - Anti-CASC4 antibody - C-terminal (ab230522) at 1/1000 dilution

All lanes:
Neuro-2a (Mouse neuroblastoma cell line) cell lysate at 35 µg

Developed using the ECL technique.

Predicted band size: 48 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.