abcam

ab233759

Anti-PRDM4/PFM1 antibody [4B6G1]

Mouse Monoclonal PRDM4/PFM1 antibody. Suitable for Flow Cyt, WB and reacts with Human samples. Cited in 1 publication. Immunogen corresponding to Recombinant Fragment Protein within Human PRDM4 aa 450-600.

Image updates are in progress. Products remain available and covered by the Abcam Product Promise. Learn more.

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human PRDM4 aa 450-600. The exact immunogen used to generate this antibody is proprietary information. Database link Q9UKN5
Clone number	4B6G1
Purification technique	Affinity purification Protein G
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/200 - 1/400

Notes	-

Predicted

Species	Mouse, Orangutan
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/500 - 1/2000
Notes	-

Predicted

Species	Mouse, Orangutan
Dilution info	-
Notes	-

Target data

See full target information PRDM4

Function	May function as a transcription factor involved in cell differentiation.

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	PRDM4 also known as PFM1 or PFM-1 is a member of the PR domain-containing protein family. It possesses an approximate molecular weight of 75 kDa. This protein functions primarily as a transcription factor with roles in the regulation of gene expression. PRDM4 localizes mainly in the nucleus where it influences transcriptional control. Expression of PRDM4/PFM1 has been observed in various tissues but shows significant levels in the brain and reproductive organs indicating its involvement in important biological processes in these regions.
Biological function summary	PRDM4/PFM1 acts in cell differentiation and development. It is part of the KRAB-ZnF silencing complex which connects to other components to modify chromatin structure and regulate gene expression. This activity is important to maintaining cellular functions and contributes to cellular differentiation states. Understanding PRDM4/PFM1's role within this complex can provide insights into its broader biological actions and its influence on cellular dynamics.
Pathways	PRDM4/PFM1 plays a significant role in the TGF-beta and Hedgehog signaling pathways. These pathways are major determinants of cellular growth differentiation and apoptosis. Within these pathways PRDM4/PFM1 can associate with other proteins like SMAD family members and GLI transcription factors which are important in mediating cellular responses to external signals.
Associated diseases and disorders	PRDM4/PFM1 links to neurodegenerative conditions and certain cancers. Its dysregulation has been noted in glioblastoma where an altered expression pattern suggests its involvement in tumor progression. PRDM4/PFM1 interacts with proteins involved in these disorders such as PTEN—a known tumor suppressor gene—highlighting its potential role in the development and progression of these diseases. Understanding these connections is key for developing therapeutic strategies targeting PRDM4/PFM1-related pathways.

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.

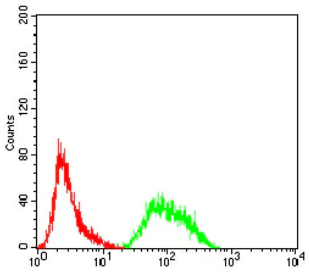
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1 product image



Flow Cytometry - Anti-PRDM4/PFM1 antibody [4B6G1] (ab233759)

PRDM4/PFM1 Flow Cytometry staining using mouse Anti-PRDM4/PFM1 antibody

Flow cytometric analysis of HeLa (human epithelial cell line from cervix adenocarcinoma) cell line labeling PRDM4/PFM1 with ab233759 at 1/200 dilution (green) compared with a negative control (red).

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