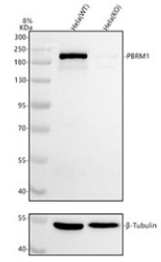
PBRM1 Antibody AFHG-16 / BAF180 Monoclonal Antibody [clone AFHG-16] (FY13701)

Catalog No.	Formulation	Size
FY13701	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol	100 ul

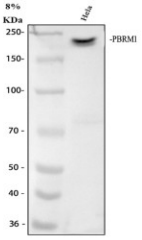
Recombinant RABBIT MONOCLONAL

Bulk quote request

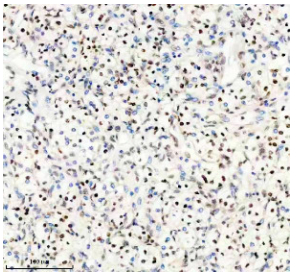
Species Reactivity	Human
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	AFHG-16
Purity	Affinity purified
UniProt	P08174
Applications	Western blot: 1:500 Immunohistochemistry (FFPE): 1:50
Limitations	This PBRM1 Antibody AFHG-16 / BAF180 Monoclonal Antibody is available for research use only.



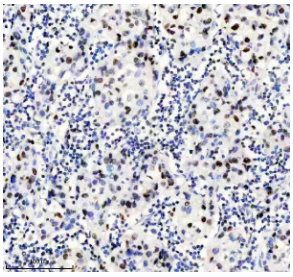
PBRM1 Antibody AFHG-16 WB Analysis of HeLa WT and PBRM1 KO Cells. Western blot analysis of wild-type (WT) and PBRM1-knockout (KO) HeLa cell lysates using BAF180 Monoclonal Antibody clone AFHG-16. A prominent high-molecular-weight PBRM1 band is detected in WT lysate but is absent in the KO sample, demonstrating PBRM1-dependent detection under the tested conditions. Beta-tubulin bands are present at comparable intensities in both lanes as loading controls. No appreciable additional immunoreactive bands are observed.



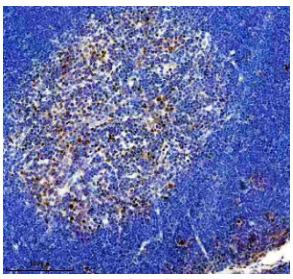
PBRM1 Antibody AFHG-16 WB Analysis of HeLa Cell Lysate. Western blot analysis of human HeLa whole-cell lysate using BAF180 Monoclonal Antibody clone AFHG-16. A prominent immunoreactive band is detected above the 180 kDa marker, consistent with the high molecular weight of PBRM1, which has a calculated molecular weight of approximately 193 kDa. Minimal additional banding is visible under the tested conditions.



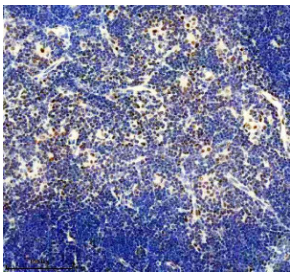
PBRM1 Antibody AFHG-16 IHC Staining of Human Renal Cancer Tissue. Immunohistochemical analysis of paraffin-embedded human renal cancer tissue using BAF180 Monoclonal Antibody clone AFHG-16 at a 1:50 dilution. Heterogeneous brown DAB nuclear staining is observed among tumor cells, including scattered strongly positive nuclei and areas with weaker immunoreactivity. Heat-induced antigen retrieval was performed using EDTA buffer at pH 8.0, followed by overnight primary antibody incubation at 4oC.



PBRM1 Antibody AFHG-16 IHC Staining of Human Liver Cancer Tissue. Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using BAF180 Monoclonal Antibody clone AFHG-16 at a 1:50 dilution. Scattered tumor cell nuclei display brown DAB immunoreactivity, with heterogeneous staining intensity across the section. Heat-induced antigen retrieval was performed using EDTA buffer at pH 8.0, followed by overnight primary antibody incubation at 4oC.



PBRM1 Antibody AFHG-16 IHC Staining of Rat Thymus Tissue. Immunohistochemical analysis of paraffin-embedded rat thymus tissue using BAF180 Monoclonal Antibody clone AFHG-16 at a 1:50 dilution. Brown DAB immunoreactivity is observed in scattered cells, with more prominent nuclear-associated staining in portions of the thymic tissue. Heat-induced antigen retrieval was performed using EDTA buffer at pH 8.0, followed by overnight primary antibody incubation at 4oC.



PBRM1 Antibody AFHG-16 IHC Staining of Mouse Thymus Tissue. Immunohistochemical analysis of paraffin-embedded mouse thymus tissue using BAF180 Monoclonal Antibody clone AFHG-16 at a 1:50 dilution. Scattered brown DAB nuclear immunoreactivity is observed within the thymic tissue, with heterogeneous staining intensity among cells. Heat-induced antigen retrieval was performed using EDTA buffer at pH 8.0, followed by overnight primary antibody incubation at 4oC.

Description

PBRM1 Antibody AFHG-16 / BAF180 Monoclonal Antibody recognizes Polybromo 1 (PBRM1), a chromatin-associated protein that functions as a defining component of the polybromo-associated BAF (PBAF) chromatin-remodeling complex. Also known as BAF180, PBRM1 belongs to the SWI/SNF family of ATP-dependent chromatin-remodeling proteins, which regulate DNA accessibility by repositioning or restructuring nucleosomes. These complexes influence transcription, cellular differentiation, DNA damage responses, and other processes requiring controlled access to genomic DNA.

PBRM1 contains six bromodomains that participate in recognizing acetylated lysine residues on histones, along with additional structural domains involved in chromatin interactions and protein regulation. Through these features, PBRM1 helps direct PBAF complexes to specific chromatin environments and contributes to the regulation of gene expression. Its functions are context-dependent, reflecting interactions with transcription factors, histone modifications, and other chromatin-associated proteins. PBRM1 has also been implicated in maintaining genomic stability and coordinating cellular responses to DNA damage.

PBRM1 is particularly important in cancer biology because it is frequently inactivated in clear cell renal cell carcinoma (ccRCC). The gene is located on chromosome 3p, a region commonly affected by chromosomal loss in renal tumors.

Inactivating mutations or loss of PBRM1 expression can disrupt PBAF-mediated transcriptional regulation and contribute to tumor development. PBRM1 alterations frequently occur alongside changes affecting other chromosome 3p tumor suppressors, including VHL, although their biological consequences are distinct. Research has also examined associations between PBRM1 status, tumor progression, immune signaling, and responses to cancer therapy, with findings that vary across clinical and experimental settings.

PBRM1 is predominantly localized to the nucleus, consistent with its role in chromatin regulation. Its expression and functional status are relevant to studies of transcriptional control, tumor suppressor pathways, and the molecular biology of renal cancer. PBRM1 Antibody AFHG-16 provides a reagent for investigating BAF180 protein expression and the cellular consequences of altered PBAF complex activity.

Explore additional antibodies involved in chromatin remodeling, transcriptional regulation, and epigenetic control on our Epigenetics Antibodies page.

Application Notes

Optimal dilution of the PBRM1 Antibody AFHG-16 / BAF180 Monoclonal Antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human Polybromo 1 protein was used as the immunogen for the PBRM1 Antibody AFHG-16.

Storage

The PBRM1 Antibody AFHG-16 can be stored at -20oC.

Alternate Names

BAF180 antibody, Polybromo 1 antibody, Polybromo-1 antibody, PBAF180 antibody, BRG1-associated factor 180 antibody, SWI/SNF chromatin remodeling protein antibody

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