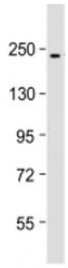
# BAF180 Antibody 1636CT387.122.52 / PBRM1 Monoclonal Antibody [clone 1636CT387.122.52] (F53815)

| Catalog No. | Formulation | Size |
|---|---|---|
| F53815-0.2ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.2 ml |
| F53815-0.05ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.05 ml |

**Bulk quote request**

| | |
|---|---|
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | 1636CT387.122.52 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | Q86U86 |
| **Applications** | Western blot: 1:250-500 |
| **Limitations** | This PBRM1 / BAF180 antibody is available for research use only. |




BAF180 Antibody 1636CT387.122.52 WB Analysis of Human HT-1080 Cell Lysate. Western blot analysis of human HT-1080 cell lysate using PBRM1 Monoclonal Antibody clone 1636CT387.122.52 at a dilution of 1:500. The expected molecular weight of PBRM1 is approximately 180-193 kDa.

## Description

BAF180 Antibody 1636CT387.122.52 / PBRM1 Monoclonal Antibody targets BAF180, also known as Polybromo-1 or PBRM1, a nuclear protein involved in ATP-dependent chromatin remodeling. BAF180 is a defining component of the polybromo-associated BAF (PBAF) complex, a specialized member of the SWI/SNF family of chromatin-remodeling assemblies. By regulating nucleosome positioning and chromatin accessibility, PBAF influences transcriptional programs associated with cellular differentiation, proliferation, and responses to environmental stress.

BAF180 is distinguished by its six bromodomains, which participate in recognizing acetylated lysine residues on histone proteins. These domains contribute to interactions between the PBAF complex and acetylated chromatin, helping regulate the recruitment and activity of chromatin-remodeling machinery. The protein also contains two bromo-adjacent homology (BAH) domains and a high-mobility group (HMG) domain. Together, these structural features support its interactions with chromatin and other regulatory proteins.

Within the PBAF complex, BAF180 associates with components including SMARCA4, ARID2, and BRD7. The complex uses energy derived from ATP hydrolysis to alter nucleosome organization, thereby influencing access to regulatory DNA sequences. BAF180 contributes to the control of selected transcriptional programs, including those involved in cell-cycle regulation and cellular differentiation. Its functions depend on interactions with other chromatin-associated proteins and the molecular environment of individual genomic regions.

PBRM1 is recognized as an important tumor suppressor gene, particularly in clear cell renal cell carcinoma. Inactivating alterations frequently affect PBRM1 in this malignancy, contributing to disrupted chromatin regulation and changes in gene expression. Loss of BAF180 can influence cellular proliferation, differentiation, and responses to DNA damage. Research has also examined relationships between PBRM1 status, tumor-associated immune signaling, and therapeutic response, although these associations vary across experimental and clinical settings.

BAF180 Antibody 1636CT387.122.52 provides a monoclonal reagent for investigating the expression of this chromatin-remodeling component. Characterizing BAF180 abundance and regulation contributes to understanding PBAF complex function, histone acetylation recognition, transcriptional control, and the molecular consequences of altered chromatin remodeling in cancer.

For studies requiring knockout-validated western blot specificity, see our PBRM1 Antibody AFHG-16, a rabbit monoclonal antibody targeting BAF180 with validated WB and IHC applications.

## Application Notes

Titration of the BAF180 Antibody 1636CT387.122.52 / PBRM1 Monoclonal Antibody may be required due to differences in protocols and substrate sensitivity.

## Immunogen

A human recombinant protein was used as the immunogen for the PBRM1 / BAF180 antibody.

## Storage

Aliquot the PBRM1 / BAF180 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

## Alternate Names

BAF180 antibody, Polybromo-1 antibody, Polybromo 1 antibody, PBRM1 antibody, BRG1-associated factor 180 antibody, Polybromo-1 protein antibody, PBAF complex subunit antibody, PBRM1 chromatin remodeling antibody, Polybromo-1 tumor suppressor antibody, SWI/SNF complex PBRM1 antibody

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