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#56426**PRAME (E7I1B) Rabbit mAb**

**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IHC-Bond, IHC-P, FC-FP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 50	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P78395	<b>Entrez-Gene Id:</b> 23532
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**Product Usage Information****Application**

Western Blotting  
IHC Leica Bond  
Immunohistochemistry (Paraffin)  
Flow Cytometry (Fixed/Permeabilized)

**Dilution**

1:1000  
1:100 - 1:400  
1:100 - 1:400  
1:400 - 1:1600

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #19600.

**Specificity/Sensitivity**

PRAME (E7I1B) Rabbit mAb recognizes endogenous levels of total PRAME protein. Non-specific non-nuclear staining was observed in smooth muscle.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly163 of human PRAME protein.

**Background**

Cancer/testis antigens (CTAs) are a family of more than 100 proteins whose normal expression is largely restricted to immune privileged germ cells of the testis, ovary, and trophoblast cells of the placenta. Although most normal somatic tissues are void of CTA expression, due to epigenetic silencing of gene expression, their expression is upregulated in a wide variety of human solid and liquid tumors (1,2). As such, CTAs have garnered much attention as attractive targets for a variety of immunotherapy-based approaches to selectively attack tumors (3).

PRAME (preferentially expressed antigen in melanoma) is a cancer/testis antigen not normally expressed in any tissues except testis, but is upregulated in tumors. PRAME is expressed in melanoma cells and is recognized by cytolytic T-cells (4). It is also upregulated in other diseases, such as synovial sarcoma (5), NSCLC (6), and breast cancer, where it is thought to contribute to tumorigenesis and metastasis (7). PRAME is also highly expressed in liquid tumors such as AML (8) and can be predictive of clinical outcome in some circumstances (9). PRAME and other cancer/testis antigens are currently being pursued as novel immunotherapy targets and diagnostic biomarkers (10).

**Background References**

1. Caballero, O.L. and Chen, Y.T. (2009) *Cancer Sci* 100, 2014-21.
2. De Smet, C. et al. (1999) *Mol Cell Biol* 19, 7327-35.
3. Gjerstorff, M.F. et al. (2015) *Oncotarget* 6, 15772-87.
4. Ikeda, H. et al. (1997) *Immunity* 6, 199-208.
5. Iura, K. et al. (2017) *Hum Pathol* 61, 130-139.
6. Gunn, R.B. and Fröhlich, O. (1989) *Methods Enzymol* 173, 54-80.
7. Sun, Z. et al. (2016) *Gene* 594, 160-164.
8. Qin, Y.Z. et al. (2017) *Oncol Lett* 13, 2823-2830.
9. Oehler, V.G. et al. (2009) *Blood* 114, 3299-308.
10. Salmaninejad, A. et al. (2016) *Immunol Invest* 45, 619-40.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

## Cross-Reactivity Key

H: Human

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