Revision 4

Store at -20C

#56426

PRAME (E7I1B) Rabbit mAb

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

Product Usage Information

Application	Dilution
Western Blotting	1:1000
IHC Leica Bond	1:100 - 1:400
Immunohistochemistry (Paraffin)	1:100 - 1:400
Flow Cytometry (Fixed/Permeabilized)	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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