

#13287 Store at -20°C

Basigin/EMMPRIN (E1S1V) Rabbit mAb



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

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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P	H	Endogenous	38-58	Rabbit IgG	#P35613	682

Product Usage Information

Application

Western Blotting

Immunohistochemistry (Paraffin)

Dilution

1:1000

1:200 - 1:800

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.

Specificity / Sensitivity

Basigin/EMMPRIN (E1S1V) Rabbit mAb recognizes endogenous levels of total EMMPRIN protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala254 of human EMMPRIN protein.

Background

Basigin (EMMPRIN, CD147) is a type I integral membrane receptor protein belonging to the immunoglobulin superfamily (1). Basigin is a glycosylated protein with four known isoforms, of which isoform 2 is the most abundantly expressed (2). Multiple functions have been ascribed to Basigin; foremost among these is stimulating the secretion of extracellular matrix metalloproteinases by adjacent fibroblasts, a function which has been implicated in promoting tumor progression (2-4). Research studies have shown that Basigin is overexpressed by many tumor cells, and its expression level may correlate with tumor malignancy (5,6). A recent study identified the *BASIGIN* gene as a regulatory target of Slug, suggesting a role for Basigin in the process of epithelial-mesenchymal transition (7). Basigin has also been identified as a marker for a subset of highly suppressive regulatory T cells (8), and as an obligate receptor for the malarial parasite *Plasmodium falciparum* on human erythrocytes (9).

Background References

1. Biswas, C. et al. (1995) *Cancer Res* 55, 434-9.
2. Liao, C.G. et al. (2011) *Mol Cell Biol* 31, 2591-604.
3. Sweeny, L. et al. (2012) *Exp Cell Res* 318, 1788-98.
4. Lescaille, G. et al. (2012) *BMC Cancer* 12, 115.
5. Piao, S. et al. (2012) *J Cancer Res Clin Oncol* 138, 627-35.
6. Bi, X.C. et al. (2011) *Clin Invest Med* 34, E358.
7. Wu, J. et al. (2011) *Oncogene* 30, 4410-27.
8. Solstad, T. et al. (2011) *Blood* 118, 5141-51.
9. Crosnier, C. et al. (2011) *Nature* 480, 534-7.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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