Revision 6

Store at -20C

#9585

Slug (C19G7) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IF-IC, FC-FP	H M	Endogenous	30	Rabbit IgG	#O43623	6591

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50
Immunofluorescence (Immunocytochemistry)	1:200 - 1:800
Flow Cytometry (Fixed/Permeabilized)	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.

For a carrier free (BSA and azide free) version of this product see product #80121.

Specificity/Sensitivity

Slug (C19G7) Rabbit mAb detects endogenous levels of total Slug protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant human Slug protein. The epitope has been mapped to residues surrounding Tyr32.

Background

Slug (SNAI2) is a widely expressed transcriptional repressor and member of the Snail family of zinc finger transcription factors (1). Similar to the related Snail protein, Slug binds to the E-cadherin promoter region to repress transcription during development (2). The binding of Slug to integrin promoter sequences represses integrin expression and results in reduced cell adhesion (3). Down regulation of E-cadherin expression occurs during the epithelial-mesenchymal transition during embryonic development, a process also exploited by invasive cancer cells (4,5). The tumor suppressor protein p53 induces Slug expression in γ-irradiated cells; Slug protects damaged cells from apoptosis by repressing p53-induced transcription of the proapoptotic Bcl-2 family protein Puma (6). Deletion mutations in the corresponding Slug gene are associated with the pigmentation disorders Waardenburg Syndrome and Piebaldism, while a genetic duplication resulting in Slug overexpression is associated with a collection of congenital heart defects termed tetralogy of Fallot (7).

Background References

1. Inukai, T. et al. (1999) *Mol Cell* 4, 343-52.
2. Bolós, V. et al. (2003) *J Cell Sci* 116, 499-511.
3. Turner, F.E. et al. (2006) *J Biol Chem* 281, 21321-31.
4. Barrallo-Gimeno, A. and Nieto, M.A. (2005) *Development* 132, 3151-61.
5. Castro Alves, C. et al. (2007) *J Pathol* 211, 507-15.
6. Wu, W.S. et al. (2005) *Cell* 123, 641-53.
7. Pérez-Mancera, P.A. et al. (2006) *Cytogenet Genome Res* 114, 24-9.

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 **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **M:** Mouse

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