Revision 1

Store at -20C

#5601

βIG-H3 (D31B8) XP® Rabbit mAb

Cell Signaling TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IF-IC	H	Endogenous	70	Rabbit IgG	#Q15582	7045

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100
Immunofluorescence (Immunocytochemistry)	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

βIG-H3 (D31B8) XP® Rabbit mAb detects endogenous levels of total βIG-H3 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human βIG-H3 protein.

Background

βIG-H3 (TGFBI/RGD-CAP/Kerato-epithelin) is a 683-amino acid secretory protein induced by TGF-β that plays a role in cell adhesion, differentiation, and apoptosis (1-4). βIG-H3 contains an internal cysteine-rich EMI domain followed by four fasciclin-1 domains and a carboxy terminal RGD domain (1,2). It contributes to cell adhesion through interactions with integrins as well as a number of extracellular matrix (ECM) proteins including collagen, fibronectin, and laminin (5-7). ECM βIG-H3 is found in a wide variety of tissues (8-12). Mutations in the βIG-H3 gene as well as elevated protein levels are most notably associated with corneal dystrophies (13).

Background References

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4. Kim, J.E. et al. (2003) *Oncogene* 22, 2045-53.
5. Kim, J.E. et al. (2002) *Invest Ophthalmol Vis Sci* 43, 656-61.
6. Billings, P.C. et al. (2002) *J Biol Chem* 277, 28003-9.
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8. Gibson, M.A. et al. (1997) *J Histochem Cytochem* 45, 1683-96.
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10. Gilbert, R.E. et al. (1998) *Kidney Int* 54, 1052-62.
11. Rawe, I.M. et al. (1997) *Invest Ophthalmol Vis Sci* 38, 893-900.
12. LeBaron, R.G. et al. (1995) *J Invest Dermatol* 104, 844-9.
13. Munier, F.L. et al. (1997) *Nat Genet* 15, 247-51.

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)

Cross-Reactivity Key

H: Human

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