

#2719 Store at -20°C

βIG-H3 Antibody


Cell Signaling
TECHNOLOGY®

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

Applications: WB, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 70	Source: Rabbit	UniProt ID: #Q15582	Entrez-Gene Id: 7045
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Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:100

Storage

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

Specificity / Sensitivity

βIG-H3 Antibody detects endogenous levels of total βIG-H3 protein.

Species predicted to react based on 100% sequence homology:

Monkey

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxyl terminus of human βIG-H3. Antibodies were purified by peptide affinity chromatography.

Background

βIG-H3 (TGFB1/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

- Skonier, J. et al. (1992) *DNA Cell Biol* 11, 511-22.
- Skonier, J. et al. (1994) *DNA Cell Biol* 13, 571-84.
- Hashimoto, K. et al. (1997) *Biochim Biophys Acta* 1355, 303-14.
- Kim, J.E. et al. (2003) *Oncogene* 22, 2045-53.
- Kim, J.E. et al. (2002) *Invest Ophthalmol Vis Sci* 43, 656-61.
- Billings, P.C. et al. (2002) *J Biol Chem* 277, 28003-9.
- Hanssen, E. et al. (2003) *J Biol Chem* 278, 24334-41.
- Gibson, M.A. et al. (1997) *J Histochem Cytochem* 45, 1683-96.
- Billings, P.C. et al. (2000) *Am J Respir Cell Mol Biol* 22, 352-9.
- Gilbert, R.E. et al. (1998) *Kidney Int* 54, 1052-62.
- Rawe, I.M. et al. (1997) *Invest Ophthalmol Vis Sci* 38, 893-900.
- LeBaron, R.G. et al. (1995) *J Invest Dermatol* 104, 844-9.
- 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

WB: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

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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