

## t2719

## βIG-H3 Antibody



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

<b>Applications:</b> W, IP, IF-IC	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 70	Source/Isotype: Rabbit	UniProt ID: #Q15582	Entrez-Gene Id: 7045
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence	(Immunocytochem	istry)		<b>Dilution</b> 1:1000 1:50 1:100
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		$\beta$ IG-H3 Antibody detects endogenous levels of total $\beta$ IG-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 $\beta$ IG-H3. Antibodies were purified by peptide affinity chromatography.				
Background		$\beta$ IG-H3 (TGFBI/RGD-CAP/Kerato-epithelin) is a 683-amino acid secretory protein induced by TGF- $\beta$ that plays a role in cell adhesion, differentiation, and apoptosis (1-4). $\beta$ IG-H3 contains an internal cysteinerich 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 $\beta$ IG-H3 is found in a wide variety of tissues (8-12). Mutations in the $\beta$ IG-H3 gene as well as elevated protein levels are most notably associated with corneal dystrophies (13).				
Background References		<ol> <li>Skonier, J. et al. (1992) DNA Cell Biol 11, 511-22.</li> <li>Skonier, J. et al. (1994) DNA Cell Biol 13, 571-84.</li> <li>Hashimoto, K. et al. (1997) Biochim Biophys Acta 1355, 303-14.</li> <li>Kim, J.E. et al. (2003) Oncogene 22, 2045-53.</li> <li>Kim, J.E. et al. (2002) Invest Ophthalmol Vis Sci 43, 656-61.</li> <li>Billings, P.C. et al. (2002) J Biol Chem 277, 28003-9.</li> <li>Hanssen, E. et al. (2003) J Biol Chem 278, 24334-41.</li> <li>Gibson, M.A. et al. (1997) J Histochem Cytochem 45, 1683-96.</li> <li>Billings, P.C. et al. (2000) Am J Respir Cell Mol Biol 22, 352-9.</li> <li>Gilbert, R.E. et al. (1998) Kidney Int 54, 1052-62.</li> <li>Rawe, I.M. et al. (1997) Invest Ophthalmol Vis Sci 38, 893-900.</li> <li>LeBaron, R.G. et al. (1997) Invest Dermatol 104, 844-9.</li> <li>Munier, F.L. et al. (1997) Nat Genet 15, 247-51.</li> </ol>				

**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  $4^{\circ}$ 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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