

**#5601** Store at -20°C

## 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:
WB, IP, IF-IC	H	Endogenous	70	Rabbit IgG	#Q15582	7045

### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Immunocytochemistry)

#### Dilution

1:1000  
1:100  
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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### 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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