

Store at  
-20C  
#76518**GRB7 (E3W4G) Rabbit mAb**

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<b>Applications:</b> IF-IC	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 62	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q14451	<b>Entrez-Gene Id:</b> 2886
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**Product Usage Information****Application**

Immunofluorescence (Immunocytochemistry)

**Dilution**

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.

**Specificity/Sensitivity**

GRB7 (E3W4G) Rabbit mAb recognizes endogenous levels of total GRB7 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro87 of human GRB7 protein.

**Background**

GRB7 belongs to the GRB7 family of adaptor proteins that mediate cell surface and cytosolic tyrosine kinases to downstream signaling pathways (1-3). The C-terminal SH2 domain of GRB7 has been shown to be important for its interaction with various upstream molecules such as ERBB receptor tyrosine kinases, FAK, EphB1, and SHC. The protein has an RA, CAM-BD, and PH domain located at the central region (GM region) of its sequences to mediate downstream Ras, PI3K/Akt, ERK, and Calmodulin signaling (3,4). Overexpression of GRB7 promotes cancer proliferation and migration, and disruption of GRB7 function inhibits its effect on cancer growth, invasion, and metastasis (3-5).

**Background References**

1. Han, D.C. et al. (2001) *Oncogene* 20, 6315-21.
2. Shen, T.L. and Guan, J.L. (2004) *Front Biosci* 9, 192-200.
3. Chu, P.Y. et al. (2019) *Cells* 8, pii: E435. doi: 10.3390/cells8050435.
4. Villalobo, A. et al. (2013) *J Pharm Pharm Sci* 16, 177-89.
5. Watson, G.M. et al. (2017) *Front Mol Biosci* 4, 64.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Applications Key**

**IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key**

**H:** Human

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