

GREB1 (E8M3F) Rabbit mAb

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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 216	Source/Isotype: Rabbit IgG	UniProt ID: #Q4ZG55	Entrez-Gene Id: 9687
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

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

GREB1 (E8M3F) Rabbit mAb recognizes endogenous levels of total GREB1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro242 of human GREB1 protein.

Background

GREB1 was first identified as a gene with a strong response to estrogen receptor (ER) activity (1,2). It has been shown to bind chromatin as an ER-coactivator where it stabilizes interactions with other ER-related cofactors (3). In tamoxifen resistance, Ezh2 represses expression of GREB1, which retargeted ER coregulators (4). In addition to having numerous implications in ER-based pathologies, GREB1 expression has also been found in prostate cancer, where it is regulated by androgen (5). Similarly to breast cancer, GREB1 seems to function as a tumor suppressor and its expression has been found to be correlated with a more favorable prognosis (6). However, GREB1 has also been shown to amplify androgen receptor (AR) output, resulting in enzalutamide resistance (7).

Background References

1. Ghosh, M.G. et al. (2000) *Cancer Res* 60, 6367-75.
2. Lin, C.Y. et al. (2004) *Genome Biol* 5, R66.
3. Mohammed, H. et al. (2013) *Cell Rep* 3, 342-9.
4. Wu, Y. et al. (2018) *Cancer Res* 78, 671-84.
5. Rae, J.M. et al. (2006) *Prostate* 66, 886-94.
6. Antunes, A.A. et al. (2012) *Urol Oncol* 30, 16-20.
7. Lee, E. et al. (2019) *Elife* 8, pii: e41913. doi: 10.7554/eLife.41913.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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