

# GMEB1 Rabbit mAb

Catalog # AP76514

## Product Information

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|-------------------|------------------------|
| Application       | WB, IHC-P, FC, IP      |
| Primary Accession | <a href="#">Q9Y692</a> |
| Reactivity        | Rat, Human, Mouse      |
| Host              | Rabbit                 |
| Clonality         | Monoclonal Antibody    |
| Isotype           | IgG                    |
| Conjugate         | Unconjugated           |
| Purification      | Affinity Purified      |
| Calculated MW     | 62591                  |

## Additional Information

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|-------------|-------------------------------------------------------------------------------------------------|
| Gene ID     | 10691                                                                                           |
| Other Names | GMEB1                                                                                           |
| Dilution    | WB~~1:1000 IHC-P~~N/A FC~~1:10~50 IP~~N/A                                                       |
| Format      | Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |
| Storage     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.        |

## Protein Information

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| Name     | GMEB1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Function | Acts as a DNA-binding transcriptional regulator involved in modulating the expression of genes responsive to glucocorticoid signaling (PubMed: <a href="#">12702733</a> ). Specifically binds AT-rich DNA motifs known as glucocorticoid modulatory elements (GMEs), repressing or enhancing transcription depending on cellular context (PubMed: <a href="#">10894151</a> ). Forms heterodimeric complexes with GMEB2, which enhances its DNA-binding specificity and transcriptional activity. This complex plays a critical role in the repression of glucocorticoid receptor (GR/NR3C1) transcriptional activity, acting as a negative modulator of glucocorticoid signaling (PubMed: <a href="#">10894151</a> ). Regulates dopamine-enriched midbrain genes, including tyrosine hydroxylase/TH and the dopamine transporter SLC6A3, essential for dopamine signaling (By similarity). Also binds the transferrin receptor promoter. In the cytoplasm, inhibits caspase activation and neuronal apoptosis by stabilizing CFLARL and blocking pro-caspase 8 activation (PubMed: <a href="#">31046799</a> , PubMed: <a href="#">32514408</a> ). |

**Cellular Location**

Nucleus. Cytoplasm. Note=May be also cytoplasmic.

**Background**

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Trans-acting factor that binds to glucocorticoid modulatory elements (GME) present in the TAT (tyrosine aminotransferase) promoter and increases sensitivity to low concentrations of glucocorticoids.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.