

**4E-BP1 (pS65) Phospho Rabbit Monoclonal Antibody
Product Data Sheet**

Catalog # 2206-1

Clone ID: EP353(2)Y Lot #: Please refer to the vial
Quantity: 100 µl
Type: Rabbit Monoclonal IgG
Species Cross-reactivity*: Human Mouse Rat
Applications: WB IHC ICC Flow Cytometry IP
Molecular Wt.: 20 kDa
UniProt ID: Q13541

*Species cross-reactivity is based on WB analysis

Background: 4E-BP1 (eIF4E-binding protein) also known as PHAS, is a 10-12 kDa acidic protein that compete with eIF4G for binding of eIF4E to the mRNA 5 cap structure (1). Binding of the 4E-BPs to eIF4E is reversible and is dependent on the phosphorylation status of 4E-BP. Non-phosphorylated 4E-BP1 will bind strongly to eIF4E while, the phosphorylated form will no (2)t. Akt, TOR, MAP kinase, S6 kinase, and Cdc2 are known kinases capable of inactivating 4E-BP1 binding to eIF4E by phosphorylating either threonines 35, 45, 69 or serine 65. Although, not all phosphorylation events equally block the 4EBP1-eIF4E interaction (3-4)

Specificity: A phospho-specific peptide corresponding to residues surrounding serine 65 of human 4E-BP1 was used as an immunogen. This antibody detects 4E-BP1 phosphorylated at serine 65.

Storage Conditions: Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

Recommended Dilutions:
WB: 1:2000
Please visit www.epitomics.com for recommended protocols

Background References:
1. Pause, A., 1994. Nature 371: 762-767
2. Gingras, A.-C. 1998. Genes & Dev. 12: 502-513
3. Iritani, B. M, (1999) Proc. Natl. Acad. Sci. U. S. A. 96, 13180-13185
4. Trumpp, A., (2001) Nature 414, 768-773.

Related Products:

Antigen	Clone	Catalog #
4E-BP1	EP330Y	1578-1
4E-BP1	EP329Y	1557-1

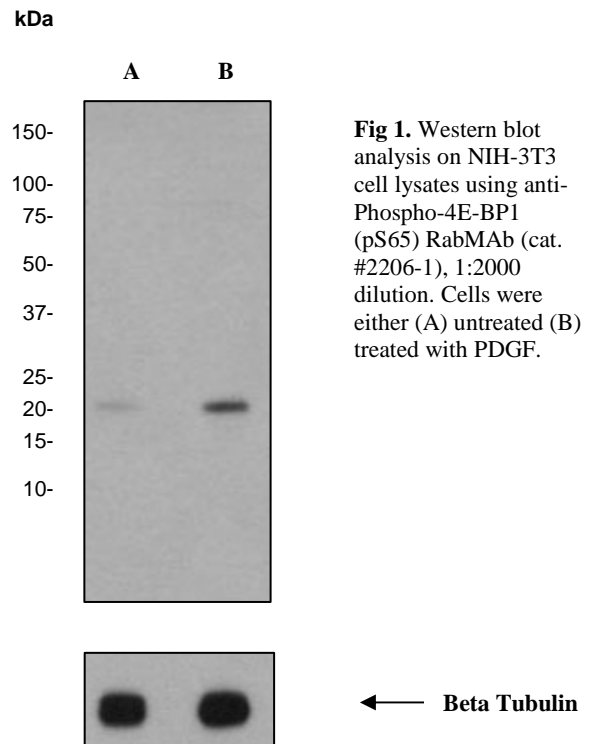


Fig 1. Western blot analysis on NIH-3T3 cell lysates using anti-Phospho-4E-BP1 (pS65) RabMAb (cat. #2206-1), 1:2000 dilution. Cells were either (A) untreated (B) treated with PDGF.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.
This product was manufactured under US Patents No. 5,675,063 and 5,599,681. For a complete list of protocols and available related products, please visit www.epitomics.com.