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## Phospho-4E-BP1 (Thr37/46) (236B4) Rabbit mAb (Alexa Fluor<sup>®</sup> 647 Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Reactiv FC-FP H M R M		UniProt ID:Entrez-Gene Id:#Q135411978
Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 antibody. Protect from light. Do not freeze.	mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	Phospho-4E-BP1 (Thr37/46) (236B4) Rabbit mAb (Alexa Fluor levels of 4E-BP1 only when phosphorylated at Thr37 and/or Th BP2 and 4E-BP3 when phosphorylated at equivalent sites.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a residues surrounding Thr37 and Thr46 of mouse 4E-BP1. The 647 under optimal conditions with an F/P ratio of 2-5. The Alexa Fluor <sup>®</sup> 647 dye is maximally excited by red light (e.g of the Alexa Fluor <sup>®</sup> 647 dye produce bright far-red-fluorescenc	antibody was conjugated to Alexa Fluor <sup>®</sup> J. 633 nm He-Ne laser). Antibody conjugates
Product Description	This Cell Signaling Technology (CST) antibody is conjugated to tested in-house for direct flow cytometric analysis of human ce 4E-BP1 (Thr37/46) (236B4) Rabbit mAb #2855, reacts with Ph mouse, rat and monkey. CST expects that phospho-4E-BP1 (T 647 Conjugate) will also recognize Phospho-4E-BP1 in these s	lls. The unconjugated antibody, Phospho- ospho-4E-BP1 (Thr37/46) from human, hr37/46) (236B4) Rabbit mAb (Alexa Fluor®
Background	Translation repressor protein 4E-BP1 (also known as PHAS-1) binding to the translation initiation factor eIF4E. Hyperphospho and results in activation of cap-dependent translation (1). Both FRAP/mTOR kinase regulate 4E-BP1 activity (2,3). Multiple 4E (4). While phosphorylation by FRAP/mTOR at Thr37 and Thr46 eIF4E, it is thought to prime 4E-BP1 for subsequent phosphory	rylation of 4E-BP1 disrupts this interaction the PI3 kinase/Akt pathway and E-BP1 residues are phosphorylated <i>in vivo</i> 6 does not prevent the binding of 4E-BP1 to
Background References	<ol> <li>Pause, A. et al. (1994) Nature 371, 762-7.</li> <li>Brunn, G.J. et al. (1997) Science 277, 99-101.</li> <li>Gingras, A.C. et al. (1998) Genes Dev 12, 502-13.</li> <li>Fadden, P. et al. (1997) J Biol Chem 272, 10240-7.</li> <li>Gingras, A.C. et al. (1999) Genes Dev 13, 1422-37.</li> </ol>	
Species Reactivity	Species reactivity is determined by testing in at least one appro	ved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cere</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>	
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