**Anti-Phospho-4E-BP1[Thr37/46]-149Sm**

**Catalog #:** 3149005A  
**Package Size:** 50 tests  
**Storage:** Store product at 4°C. Do not freeze.  
**Isotype:** Rabbit IgG  
**Clone:** 236B4  
**Formulation:** Antibody stabilizer with 0.05% Sodium Azide  

**Technical Information**

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

**Recommended Usage:** The suggested use is 1 µl for up to $3 \times 10^6$ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.

**Description**

4E-BP1, also known as PHAS-1, is a member of the 4E-BP (eIF4E-Binding Protein) family of translational repressors, which also includes 4E-BP2 and 4E-BP3. Hypophosphorylated 4E-BP1 binds tightly to eIF4E, the mRNA cap-binding protein, thereby repressing mRNA translation. 4E-BP1 undergoes phosphorylation by MAPK, ATM or mTOR in response to various growth factors which induces the dissociation of 4E-BP1 from eIF4E, thus enabling eIF4E to promote mRNA translation. Within the hematopoietic compartment, 4E-BP1 is expressed at high levels in monocytes and low levels in T cells. The 236B4 antibody reacts with 4E-BP1 phosphorylated at threonine 37/46 residues.

**References**


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