

Product Datasheet

Phospho-4E-BP1 (Thr45) Antibody

Catalog No: CY6004

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB IHC



Information

UniProt ID: Q13541

All Names: 4EBP1, EIF4EBP1, Eukaryotic translation initiation factor 4E binding protein 1, Insulin-stimulated EIF-4E binding protein PHAS-I, P/OKCL6, PHAS-1, PHAS-I

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide derived from human 4E-BP1 around the phosphorylation site of Threonine 45

Molecular Wt.: 18 kDa

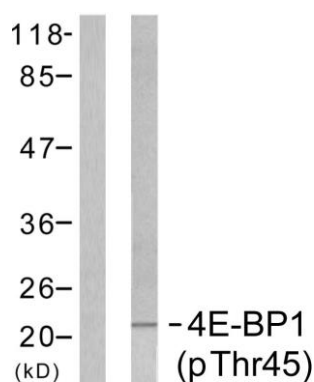
Application

WB: 1:500~1:2000

IHC 1:50-1:200

Background

4E-BP1 binds to eIF4E, preventing its assembly into the EIF4F complex and inhibiting cap-dependent translation. Phosphorylation of 4E-BP1 disrupts this binding, activating cap-dependent translation.



Western blot analysis of extracts from MDA435 cells untreated or treated with EGF (200nm, 5mins), using 4E-BP1 (phospho-Thr45) antibody.

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