4E-BP1(Ab-45) Antibody

Catalog No: #21216

Package Size: #21216-1 50ul #21216-2 100ul #21216-4 25ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

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Purification Ant purifications WB Species Reactivity Hu Specificity The Immunogen Type Pep	lyclonal
Applications WB Species Reactivity Hu Specificity The Immunogen Type Per	
Applications WB Species Reactivity Hu Specificity The Immunogen Type Pep	tibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were
Species Reactivity Hu Specificity The Immunogen Type Pep	rified by affinity-chromatography using epitope-specific peptide.
Specificity The Immunogen Type Per	B IHC IF
Immunogen Type Per	Ms Rt
	e antibody detects endogenous level of total 4E-BP1 protein.
Immunogen Description Per	ptide-KLH
• • • • • • • • • • • • • • • • • • • •	ptide sequence around aa.43~47 (S-T-T-P-G) derived from Human 4E-BP1.
Target Name 4E-	-BP1
Other Names EIF	F4EBP1; PHAS-1;
Accession No. Swi	viss-Prot: Q13541NCBI Protein: NP_004086.1
Concentration 1.0	Omg/ml
Formulation Sup	pplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02%
sod	dium azide and 50% glycerol.
Storage Sto	ore at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

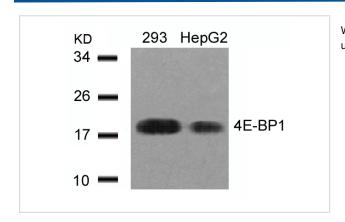
Predicted MW: 18kd

Western blotting: 1:500~1:1000

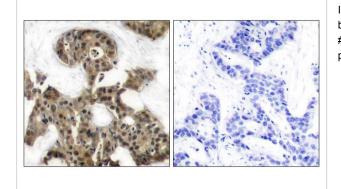
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

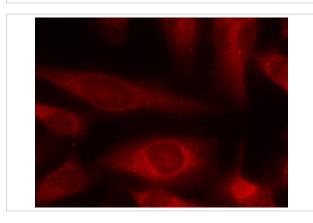
Images



Western blot analysis of extracts from 293 and HepG2 cells using 4E-BP1(Ab-45) Antibody #21216.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using 4E-BP1(Ab-45) Antibody #21216(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed Hela cells using 4E-BP1(Ab-45) Antibody #21216.

Background

4E-BP1 encodes one member of a family of translation repressor proteins. The protein directly interacts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of the multisubunit complex that recruits 40S ribosomal subunits to the 5' end of mRNAs. Interaction of this protein with eIF4E inhibits complex assembly and represses translation. This protein is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation.

Gingras AC, et al. (1998) Genes Dev 12(4): 502-513.

Brugarolas J, et al. (2004) Genes Dev 18(23): 2893-2904.

Kumar V, et al. (2000) EMBO J 19(5): 1087-1097.

Moody CA, et al. (2005) J Virol 79(9): 5499-5506.

Burnett PE, et al. (1998) Proc Natl Acad Sci U S A 95(4): 1432-1437.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.