bs-3381R **[Primary Antibody]**

Phospho-Raptor (Ser792) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 57521 **SWISS:** Q8N122

Target: Phospho-Raptor (Ser792)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human Raptor around the phosphorylation site of Ser792: VS(p-S)YS.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: mTOR controls cell growth, in part by regulating p70 S6 kinase alpha (p70alpha) and eukaryotic initiation factor 4E binding protein 1 (4EBP1). Raptor is a 150 kDa mTOR binding protein that also binds 4EBP1 and p70alpha. The binding of Raptor to mTOR is necessary for the mTOR-catalyzed phosphorylation of 4EBP1 in vitro, and it strongly enhances the mTOR kinase activity toward p70alpha. Rapamycin or amino acid withdrawal increases, whereas insulin strongly inhibits, the recovery of 4EBP1 and raptor on 7-methyl-GTP Sepharose. Partial inhibition of raptor expression by RNA interference (RNAi) reduces mTOR-catalyzed 4EBP1 phosphorylation in vitro. RNAi of C. elegans raptor yields an array of phenotypes that closely resemble those produced by inactivation of Ce-TOR. Thus, raptor is an essential scaffold for the mTOR-catalyzed phosphorylation of 4EBP1 and mediates TOR action in vivo.

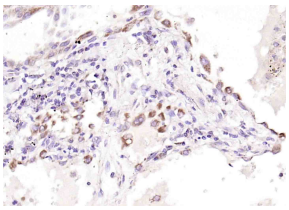
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse (predicted: Rat, Pig, Sheep, Cow, Chicken, Dog, GuineaPig, Horse, Danio rerio)

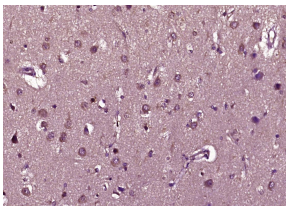
Predicted MW.: 140 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-Raptor (Ser792)) Polyclonal Antibody, Unconjugated (bs-3381R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-Raptor (Ser792)) Polyclonal Antibody, Unconjugated (bs-3381R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=3.757]** Harry J Hurleyet al. Frontline Science: AMPK regulates metabolic reprogramming necessary for interferon production in Human plasmacytoid dendritic cells. J Leukoc Biol . 2021 Feb;109(2):299-308. Other ;. 32640499
- **[IF=4.2]** Suzanne M de la Monte. et al. Dysregulated mTOR networks in experimental sporadic Alzheimer's disease.

FRONT CELL NEUROSCI. 2024 Sep 25:18:1432359 ELISA ;Rat. 39386180

- **[IF=4.2]** Suzanne M de la Monte. et al.Dysregulated mTOR networks in experimental sporadic Alzheimer’s disease.front cell neurosci.2024 Sep 25:18:1432359. ELISA ;Rat. 3938618