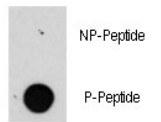
Phospho-Raptor Antibody (pS863) (F48549)

Catalog No.	Formulation	Size
F48549-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48549-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q8N122
Applications	Dot Blot : 1:500
Limitations	This phospho-Raptor antibody is available for research use only.



Dot blot analysis of phospho-Raptor antibody. 50ng of phos-peptide or nonphos-peptide per dot were spotted.

Description

Raptor participates in the FRAP1 pathway and associates in a near stoichiometric ratio with FRAP1 to form a nutrient-sensitive complex (NSC). It plays a pivotal role as a scaffold protein in the FRAP1-signaling pathway and this interaction is essential for the catalyzed phosphorylation of EIF4EBP1. It has a positive role in nutrient-stimulated signaling to the downstream effector RPS6KB1. Under nutrient-deprived conditions, raptor serves as a negative regulator of FRAP1 kinase activity. Regulation of the interaction with FRAP1 is a critical mechanism by which cells coordinate the rate of cell growth and maintenance of cell size with different environmental conditions.

Application Notes

Titration of the phospho-Raptor antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This phospho-Raptor antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pS863 of human Raptor.

Storage

Aliquot the phospho-Raptor antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.