Synaptic Systems

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Rab 7a

Cat.No. 320-0P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg peptide, lyophilized. For reconstitution add 100 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 185 to 205 from mouse Rab7a (UniProt Id: P51150)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	320 003
Remarks	This control peptide consists of the synthetic peptide (aa 185 -205) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of peptide needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Rab 7 is a member of the Rab protein family that belongs to the ras-related superfamily of small monomeric GTPases. Rab 7 is ubiquitously expressed in different tissues where it controls membrane trafficking from early to late endosome and to lysosomes. Rab 7 is also involved in the maturation of phagosome and autophagic vacuoles.

Selected General References

Rab7 is functionally required for selective cargo sorting at the early endosome.
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Rab7 regulates maturation of melanosomal matrix protein gp100/Pmel17/Silv.
Kawakami A, Sakane F, Imai S, Yasuda S, Kai M, Kanoh H, Jin HY, Hirosaki K, Yamashita T, Fisher DE, Jimbow K, et al.
The Journal of investigative dermatology (2008) 128(1): 143-50.

Rab 7: an important regulator of late endocytic membrane traffic.
Feng Y, Press B, Wandinger-Ness A
The Journal of cell biology (1995) 131(6 Pt 1): 1435-52.

The rab7 GTPase resides on a vesicular compartment connected to lysosomes.
Méresse S, Gorvel JP, Chavrier P
Journal of cell science (1995) 108 (Pt 11): 3349-58.

Rab7 and Rab9 are recruited onto late endosomes by biochemically distinguishable processes.
Soldati T, Rancaño C, Geissler H, Pfeffer SR
The Journal of biological chemistry (1995) 270(43): 25541-8.