

Rab 7a

Cat.No. 320 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not tested yet ICC: not tested yet IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Synthetic peptide corresponding to AA 185 to 205 from mouse Rab7a (UniProt Id: P51150)
Reactivity	Reacts with: human (P51149), rat (P09527), mouse (P51150). Other species not tested yet.
Specificity	Specific for rab 7a.
matching control	320-0P

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 References SYSY Antibodies

VAPB depletion alters neuritogenesis and phosphoinositide balance in motoneuron-like cells: relevance to VAPB-linked ALS. Genevini P, Colombo MN, Venditti R, Marcuzzo S, Colombo SF, Bernasconi P, De Matteis MA, Borgese N, Navone F. Journal of cell science (2019) : . **WB; tested species: mouse**

Selected General References

Rab7 is functionally required for selective cargo sorting at the early endosome. Girard E, Chmiest D, Fournier N, Johannes L, Paul JL, Védie B, Lamaze C. Traffic (Copenhagen, Denmark) (2014) 15(3): 309-26.

Rab7 regulates maturation of melanosomal matrix protein gp100/Pmel17/Silv. Kawakami A, Sakane F, Imai S, Yasuda S, Kai M, Kanoh H, Jin HY, Hirotsaki 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, Rancano C, Geissler H, Pfeffer SR. The Journal of biological chemistry (1995) 270(43): 25541-8.