

LAMP5

Cat.No. 412 005; Polyclonal Guinea pig antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Guinea pig 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 ICC: 1 : 500 IHC: 1 : 500 IHC-P/FFPE: 1 : 200 up to 1 : 1000
Immunogen	Synthetic peptide corresponding to AA 267 to 280 from mouse LAMP5 (UniProt Id: Q9D387)
Reactivity	Reacts with: mouse (Q9D387), rat (Q5PPI4). Other species not tested yet.
Specificity	Specific for LAMP5 (K.O. verified)

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

LAMP5 (Lysosome-associated membrane protein 5), also referred to as BAD-LAMP (Brain and dendritic cell-associated LAMP), is a member of the LAMP family of membrane proteins. However, in contrast to canonical members of this family, that show widespread expression, LAMP5 is, at least in rodents, strictly confined to the CNS where it appears at postnatal stages coincidently with synaptogenesis.

In the human immune system, LAMP5 is expressed at high levels in non-activated plasmacytoid dendritic cells (pDCs), where it allows discrimination of normal from leukemic pDCs in tissue and blood.

Selected References SYSY Antibodies

LAMP5 in presynaptic inhibitory terminals in the hindbrain and spinal cord: a role in startle response and auditory processing.
Koebis M, Urata S, Shinoda Y, Okabe S, Yamasoba T, Nakao K, Aiba A, Furuichi T
Molecular brain (2019) 12(1): 20. **IHC; tested species: mouse**

Selected General References

BAD-LAMP controls TLR9 trafficking and signalling in human plasmacytoid dendritic cells.
Combes A, Camossetto V, N'Guessan P, Argüello RJ, Mussard J, Caux C, Bendriss-Vermare N, Pierre P, Gatti E
Nature communications (2017) 8(1): 913.

LAMP5 Fine-Tunes GABAergic Synaptic Transmission in Defined Circuits of the Mouse Brain.
Tiveron MC, Beurrier C, Cénic C, Andriambao N, Combes A, Koehl M, Maurice N, Gatti E, Abrous DN, Kerkerian-Le Goff L, Pierre P, et al.
PloS one (2016) 11(6): e0157052.

BAD-LAMP is a novel biomarker of nonactivated human plasmacytoid dendritic cells.
Defays A, David A, de Gassart A, De Angelis Rigotti F, Wenger T, Camossetto V, Brousset P, Petrella T, Dalod M, Gatti E, Pierre P, et al.
Blood (2011) 118(3): 609-17.