

CAML

Cat.No. 359 004; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µl antiserum, lyophilized. For reconstitution add 100 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: yes ICC: not tested yet IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Recombinant protein corresponding to AA 1 to 187 from mouse CAML (UniProt Id: P49070)
Reactivity	Reacts with: rat (Q6DGG9), mouse (P49070). Other species not tested yet.
Specificity	Specific for CAML.

TO BE USED IN VITRO / FOR RESEARCH ONLY

NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

The integral membrane protein **CAML** (Calcium signal-modulating cyclophilin ligand) is highly conserved throughout species and constitutively expressed in immune cells and various cells of the nervous system. Besides its link to calcium signaling, it has recently been shown that CAML reconstitutes together with WRB the TRC40 receptor at the endoplasmic reticulum, which mediates post-translationally insertion of tail-anchored membrane proteins into the ER.

Selected General References

WRB and CAML are necessary and sufficient to mediate tail-anchored protein targeting to the ER membrane.
Vilardi F, Stephan M, Clancy A, Janshoff A, Schwappach B
PloS one (2014) 9(1): e85033.

Molecular machinery for insertion of tail-anchored membrane proteins into the endoplasmic reticulum membrane in mammalian cells.

Yamamoto Y, Sakisaka T

Molecular cell (2012) 48(3): 387-97.

Calcium signalling in T cells stimulated by a cyclophilin B-binding protein.

Bram RJ, Crabtree GR

Nature (1994) 371(6495): 355-8.