Revision 1

Store at -20C

#61451

VAMP3 (D9S6K) XP® Rabbit mAb

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P	H Mk	Endogenous	13	Rabbit IgG	#Q15836	9341

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunohistochemistry (Paraffin)	1:800

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

VAMP3 (D9S6K) XP® Rabbit mAb recognizes endogenous levels of total VAMP3 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala8 of human VAMP3 protein.

Background

Proteins in the soluble N-ethylmaleimide-sensitive factor attachment protein receptor (SNARE) complex are integral membrane proteins involved in vesicle transport and membrane fusion by pairing of vesicular SNAREs (v-SNAREs) with cognate target SNAREs (t-SNAREs) (reviewed in 1,2). Vesicle associated membrane protein 3 (VAMP3), also known as cellubrevin, has a broad tissue distribution and localizes to endosomal compartments (3). VAMP3 interacts with the t-SNAREs syntaxin1, syntaxin4, SNAP23, and SNAP25 (4,5). Research studies indicate that VAMP3 is involved in transferrin receptor recycling to the plasma membrane (6) and in T-cell receptor recycling to immunological synapses (7). Inhibition of VAMP3 with tetanus toxin impairs membrane trafficking during cell migration (8).

Background References

1. Jena, B.P. (2011) *Adv Exp Med Biol* 713, 13-32.
2. Kasai, H. et al. (2012) *Physiol Rev* 92, 1915-64.
3. McMahon, H.T. et al. (1993) *Nature* 364, 346-9.
4. Chilcote, T.J. et al. (1995) *J Cell Biol* 129, 219-31.
5. Schraw, T.D. et al. (2003) *Biochem J* 374, 207-17.
6. Galli, T. et al. (1994) *J Cell Biol* 125, 1015-24.
7. Das, V. et al. (2004) *Immunity* 20, 577-88.
8. Tayeb, M.A. et al. (2005) *Exp Cell Res* 305, 63-73.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human **Mk:** Monkey

Trademarks and Patents

Limited Uses

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