

#2869 Store at -20C

## Syntaxin 6 (C34B2) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC	H M R	Endogenous	32	Rabbit IgG	#O43752	10228

### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Immunocytochemistry)

#### Dilution

1:2000  
1:50  
1:50 - 1:100

### 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

Syntaxin 6 (C34B2) Rabbit mAb detects endogenous levels of total syntaxin 6 protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr140 of mouse syntaxin 6 protein.

### Background

Syntaxin 6 is a ubiquitously expressed S25C family member of the SNARE proteins (1,2). The protein has an amino-terminal H1 domain followed by an H2 SNARE domain and a carboxy-terminal membrane anchor (3). Syntaxin 6 protein is localized to the trans-Golgi and within endosomes and regulates membrane trafficking by partnering with a variety of other SNARE proteins (3-5). Depending on cell type and SNARE partner, syntaxin 6 is involved in the regulation of GLUT4 trafficking, neutrophil exocytosis and granule secretion (6-10).

### Background References

1. Bock, J.B. et al. (2001) *Nature* 409, 839-841.
2. Bock, J.B. et al. (1996) *J. Biol. Chem.* 271, 17961-17965.
3. Wendler, F. and Tooze, S. (2001) *Traffic* 2, 606-611.
4. Bock, J.B. et al. (1997) *Mol. Biol. Cell* 8, 1261-1271.
5. Mallard, F. et al. (2002) *J. Cell Biol.* 156, 653-664.
6. Perera, H.K. et al. (2003) *Mol. Biol. Cell* 14, 2946-2958.
7. Shewan, A.M. et al. (2003) *Mol. Biol. Cell* 14, 973-986.
8. Martín-Martín, B. et al. (2000) *Blood* 96, 2574-25783.
9. Wendler, F. et al. (2001) *Mol. Biol. Cell* 12, 1699-1709.
10. Kuliawat, R. et al. (2004) *Mol. Biol. Cell* 15, 1690-1701.

### 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

**WB:** Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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