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#5245

# STAMBP Antibody

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

<b>Applications:</b> W, IP	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 50	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #O95630	<b>Entrez-Gene Id:</b> 10617
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## Product Usage Information

### Application

Western Blotting  
Immunoprecipitation

### Dilution

1:1000  
1:50

## Storage

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

## Specificity/Sensitivity

STAMBP Antibody detects endogenous levels of total STAMBP protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly194 of human STAMBP protein. Antibodies are purified by protein A and peptide affinity chromatography.

## Background

Protein ubiquitination and deubiquitination is a reversible process catalyzed by ubiquitinating enzymes (UBEs) and deubiquitinating enzymes (DUBs). Deubiquitinating enzymes (DUBs) function as ubiquitin-specific proteases and can be divided into five subfamilies based on catalytic domain structure. At least 14 members of the JAMM ubiquitin protease subfamily have been identified, including signal transducing adaptor molecule (STAM) binding protein (3). STAM-binding protein (STAMBP or AMSH) is an endosomal DUB that preferentially displays ubiquitin isopeptidase activity toward K63-linked chains, which is critically dependent upon its interaction with STAM (4,5). STAMBP interacts with the STAM adaptor protein and becomes integrated into the multivesicular body sorting machinery to help regulate endosomal trafficking and receptor tyrosine kinase stability by deubiquitinating target proteins (4,6). Evidence indicates that endosomal STAMBP antagonizes the ubiquitin-dependent trafficking of EGFR to the lysosomal compartment (7).

## Background References

1. Nijman, S.M. et al. (2005) *Cell* 123, 773-86.
2. Nalepa, G. et al. (2006) *Nat Rev Drug Discov* 5, 596-613.
3. Kikuchi, K. et al. (2003) *Biochem Biophys Res Commun* 306, 637-43.
4. McCullough, J. et al. (2006) *Curr Biol* 16, 160-5.
5. Kim, M.S. et al. (2006) *Biochem Biophys Res Commun* 351, 612-8.
6. Agromayor, M. and Martin-Serrano, J. (2006) *J Biol Chem* 281, 23083-91.
7. McCullough, J. et al. (2004) *J Cell Biol* 166, 487-92.

## 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 **IP:** Immunoprecipitation

## Cross-Reactivity Key

**H:** Human **Mk:** Monkey

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