

# Maspin (T50) Antibody



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<b>Applications:</b> W, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 40	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P36952	<b>Entrez-Gene Id:</b> 5268
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## Product Usage Information

### Application

Western Blotting  
Immunoprecipitation

### Dilution

1:1000  
1:100

## 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

Maspin (T50) Antibody detects endogenous levels of total maspin protein.

## Species predicted to react based on 100% sequence homology

Monkey

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr50 of human maspin. Antibodies were purified by peptide affinity chromatography.

## Background

Maspin (SERPINB5) was discovered as a mammary tumor suppressor that is expressed in normal mammary epithelium but lost in most breast cancer cell lines (1). While maspin is related to the serpin family of serine protease inhibitors, it may not function as a protease inhibitor (2). It plays an essential role in embryonic development through critical roles in cell adhesion (3). While the precise mechanism of maspin signaling is unclear (4), the tumor suppressing activity of maspin has been attributed to its ability to inhibit cell invasion/metastasis (5,6) and angiogenesis (7), while promoting apoptosis (8). Nuclear translocation of active IKKα has been shown to repress maspin transcription and promote prostate cancer metastasis (9).

## Background References

1. Zou, Z. et al. (1994) *Science* 263, 526-9.
2. Pemberton, P.A. et al. (1995) *J Biol Chem* 270, 15832-7.
3. Gao, F. et al. (2004) *Development* 131, 1479-89.
4. Bailey, C.M. et al. (2006) *J Cell Physiol* 209, 617-24.
5. Sheng, S. et al. (1996) *Proc Natl Acad Sci USA* 93, 11669-74.
6. Seftor, R.E. et al. (1998) *Cancer Res* 58, 5681-5.
7. Zhang, M. et al. (2000) *Nat Med* 6, 196-9.
8. Jiang, N. et al. (2002) *Oncogene* 21, 4089-98.
9. Luo, J.L. et al. (2007) *Nature* 446, 690-4.

## 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 **M:** Mouse **R:** Rat

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