

Store at  
-20C  
#88644

# Tapasin Antibody



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<b>Applications:</b> W	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 48	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #O15533	<b>Entrez-Gene Id:</b> 6892
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## Product Usage Information

### Application

Western Blotting

### Dilution

1:1000

## 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

Tapasin Antibody recognizes endogenous levels of total Tapasin protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Tapasin protein. Antibodies are purified by peptide affinity chromatography.

## Background

TAP-associated glycoprotein (Tapasin/TAPBP) is a type-I transmembrane ER glycoprotein encoded by an MHC-linked gene. Tapasin plays a critical role in the MHC class I-restricted antigen processing and presentation pathway. Research studies have demonstrated that Tapasin is an IFN $\gamma$ -inducible component of the TAP-1/2 peptide transporter complex and, within the ER lumen, facilitates the optimization of the peptide repertoire that is loaded onto MHC class I molecules (1-5). Downregulation of Tapasin and MHC class I expression has been observed in human tumors and serves as a prominent mechanism of tumor immune escape (6-9).

## Background References

- Li, S. et al. (1997) *Proc Natl Acad Sci U S A* 94, 8708-13.
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- Ortmann, B. et al. (1997) *Science* 277, 1306-9.
- Williams, A.P. et al. (2002) *Immunity* 16, 509-20.
- Garbi, N. et al. (2003) *Eur J Immunol* 33, 264-73.
- Ogino, T. et al. (2003) *Clin Cancer Res* 9, 4043-51.
- Cabrera, C.M. et al. (2005) *Int J Cancer* 113, 611-8.
- Sokol, L. et al. (2015) *J Transl Med* 13, 279.
- Jiang, Q. et al. (2010) *Tumour Biol* 31, 451-9.

## 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

## Cross-Reactivity Key

**H:** Human **M:** Mouse

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