

Store at -20C
#9798**Thy1 Antibody**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	22	Rabbit	#P04216	7070

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

Thy1 Antibody recognizes endogenous levels of total Thy1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr66 of human Thy1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

The Thy1/CD90 cell surface antigen is a GPI-anchored, developmentally regulated protein involved in signaling cascades that mediate neurite outgrowth, T cell activation, tumor suppression, apoptosis, and fibrosis (1). Thy1/CD90 is highly expressed on the surface of adult neurons and is thought to play a role in modulating adhesive and migratory events, such as neurite extension (1,2). Decreased Thy1/CD90 mRNA and protein expression is associated with the development of epithelial ovarian cancer, suggesting a role as a putative tumor suppressor gene of human ovarian cancer (3,4). Research studies indicate that Thy1/CD90 knockout mice have impaired cutaneous immune responses and abnormal retinal development (5,6). Thy1/CD90 is epigenetically regulated or deregulated in some disease states, such as pulmonary fibrosis. The potentially reversible hypermethylation of the Thy1/CD90 promoter offers the possibility of novel therapeutic options in this disease (7).

Background References

1. Rege, T.A. and Hagood, J.S. (2006) *FASEB J* 20, 1045-54.
2. Barker, T.H. et al. (2004) *Exp Cell Res* 295, 488-96.
3. Abeysinghe, H.R. et al. (2003) *Cancer Genet Cytogenet* 143, 125-32.
4. Zeng, L.Q. et al. (2009) *Zhonghua Zhong Liu Za Zhi* 31, 118-20.
5. Beissert, S. et al. (1998) *J Immunol* 161, 5296-302.
6. Simon, P.D. et al. (1999) *Brain Res Dev Brain Res* 117, 219-23.
7. Sanders, Y.Y. et al. (2008) *Am J Respir Cell Mol Biol* 39, 610-8.

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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