Thy1 Antibody

For Research Use Only. Not For Use In Diagnostic Procedures.

**Applications** | **Species Cross-Reactivity** | **Molecular Wt.** | **Source**
---|---|---|---
W, IP | Endogenous | 22 kDa | Rabbit**

**Background:** Thy1 is a GPI-anchored, developmentally regulated protein involved in various signaling cascades that mediate neurite outgrowth, T cell activation, tumor suppression, apoptosis, and fibrosis (1). It 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 expression is associated with the development of epithelial ovarian cancer, revealing its role as a putative tumor suppressor gene of human ovarian cancer (3,4). Thy1 knockout mice have impaired cutaneous immune responses and abnormal retinal development (5,6). Thy1 is epigenetically regulated, or deregulated in some disease states, such as pulmonary fibrosis. The potentially reversible hypermethylation of the Thy1 promoter offers the possibility of novel therapeutic options in this disease (7).

**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 References:**

**Recommended Antibody Dilutions:**
- Western blotting: 1:1000
- Immunoprecipitation: 1:100

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

**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.

**Entrez-Gene ID #7070**
**Swiss-Prot Acc. #P04216**

Western blot analysis of extracts from human, mouse, and rat brain using Thy1 Antibody.

**IMPORTANT:** For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.