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THY1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2050a

Product Information

Application	WB, IHC-P, E
Primary Accession	P04216
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	17935
Antigen Region	36-65

Additional Information

Gene ID	7070
Other Names	Thy-1 membrane glycoprotein, CDw90, Thy-1 antigen, CD90, THY1
Target/Specificity	This THY1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 36-65 amino acids from the N-terminal region of human THY1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	THY1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	THY1
Function	May play a role in cell-cell or cell-ligand interactions during synaptogenesis and other events in the brain.
Cellular Location	Cell membrane; Lipid-anchor, GPI- anchor

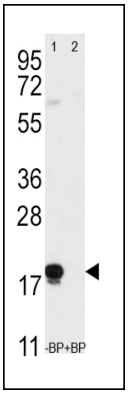
Background

THY1 (CD90) antigen is a GPI linked glycoprotein member of the Immunoglobulin superfamily. It is expressed on murine T cells, thymocytes, neural cells, cells of granulocytic lineage, early hematopoietic progenitors, fibroblasts, neurons and Kupffer's cells. Thy1 may play a role in cell to cell or cell to ligand interactions during synaptogenesis and other events in the brain.

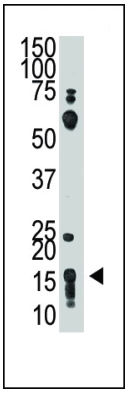
References

Koumas, L., et al., Am. J. Pathol. 163(4):1291-1300 (2003). Abeysinghe, H.R., et al., Cancer Genet. Cytogenet. 143(2):125-132 (2003). Saalbach, A., et al., Microvasc. Res. 64(1):86-93 (2002). Henniker, A.J., J. Biol. Regul. Homeost. Agents 15(4):392-393 (2001). Ye, Z., et al., Biochem. Biophys. Res. Commun. 275(1):223-227 (2000).

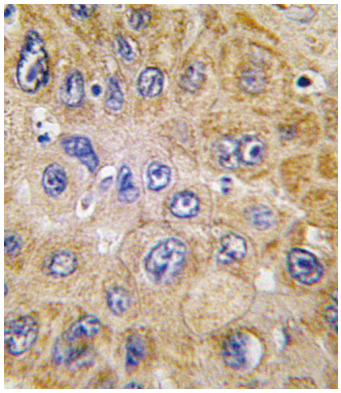
Images



Western blot analysis of anti-THY1 (N-term) Pab (Cat.#AP2050a) pre-incubated without(lane 1) and with(lane 2) blocking peptide (BP2050a) in T47D cell line lysate. THY1 (N-term)(arrow) was detected using the purified Pab .

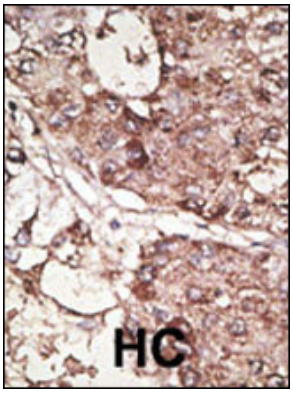


The anti-THY1 (N-term) Pab (Cat. #AP2050a) is used in Western blot to detect THY1 in HL60 cell lysate.

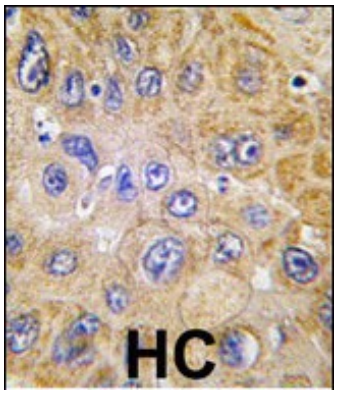


Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with THY1 antibody (N-term) (Cat.#AP2050a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use



of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with THY1 antibody (N-term) (Cat.#AP2050a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Citations

- The clinical pathological significance of Thy1 and CD49f expression in chondrosarcomas.
- Quantitative Analysis of Differential Proteome Expression in Bladder Cancer vs. Normal Bladder Cells Using SILAC Method.
- Analogy between sphere forming ability and stemness of human hepatoma cells.
- High expression levels of putative hepatic stem/progenitor cell biomarkers related to tumour angiogenesis and poor prognosis of hepatocellular carcinoma.