

Thy1 Cell Surface Antigen (Thy1) Recombinant Protein | Thy1 recombinant protein

Recombinant Thy1 Cell Surface Antigen (Thy1)

CATALOG # AAA134461	HOST E. coli	REACTIVITY Rat	APPLICATIONS Western Blot, SDS-Page
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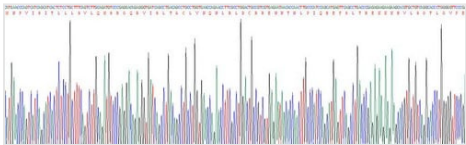
PRODUCT SYNONYMS

Thy1 Cell Surface Antigen (Thy1); Recombinant Thy1 Cell Surface Antigen (Thy1); Thy1 recombinant protein

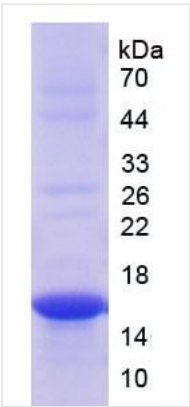
PRODUCT SPECIFICATIONS

Host	E. coli
Reactivity	Rat
Purity/Purification	>95%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300
Concentration	200µg/mL (varies by lot)
Applicable Applications for Thy1 recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Met1~Leu161
Tags	N-terminal His-Tag
Tissue Specificity	Brain, Lung, Liver, Kidney
Subcellular Location	Cell membrane; Lipid-anchor, GPI-anchor
Traits	Freeze-dried powder
Predicted isoelectric point	9.2
Predicted Molecular Mass	19.4kDa
Accurate Molecular Mass	16kDa as determined by SDS-PAGE reducing conditions
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



Application Data



SDS-PAGE

MNPVISITLL LSVLQMSRGQ RVISLTACLV NQNLRLDCRH ENNTNLPQIH
EFSLTREKKK HVLSGTLGVP EHTYRSRVNL FSDRFIKVLT LANFTTKDEG
DYMCELRVSG QNPTSSNKT I NVIRDKLVKC GGISLLVQNT SWLLLLLSL
SFLQATDFIS L

Sequence

NCBI AND UNIPROT INFORMATION

NCBI GI #	6981654
NCBI GeneID	24832
NCBI Accession #	NP_036805.1
NCBI GenBank Nucleotide #	NM_012673.2
UniProt Accession #	P01830
NCBI Official Full Name	thy-1 membrane glycoprotein preproprotein
NCBI Official Synonym Full Names	Thy-1 cell surface antigen
NCBI Official Symbol	Thy1
NCBI Official Synonym Symbols	CD7
NCBI Protein Information	thy-1 membrane glycoprotein; CD90; Thy-1 protein; thy-1 antigen; thy-1 glycoprotein; Thymus cell surface antigen; thymus cell antigen 1, theta
UniProt Protein Name	Thy-1 membrane glycoprotein
UniProt Gene Name	Thy1
UniProt Synonym Gene Names	Thy-1
UniProt Entry Name	THY1_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.