

CARP Polyclonal Antibody

Catalog No: YT0640

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: CARP

Gene Name: ANKRD1

Protein Name: Ankyrin repeat domain-containing protein 1

Q15327

Q9CR42

Human Gene Id: 27063

Human Swiss Prot

No:

Mouse Gene Id: 107765

Mouse Swiss Prot

No:

Rat Gene ld: 27064

Rat Swiss Prot No: Q8R560

Immunogen: The antiserum was produced against synthesized peptide derived from human

ANKRD1. AA range:231-280

Specificity: CARP Polyclonal Antibody detects endogenous levels of CARP protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.



Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 36kD

Background: ankyrin repeat domain 1(ANKRD1) Homo sapiens The protein encoded by this

gene is localized to the nucleus of endothelial cells and is induced by IL-1 and TNF-alpha stimulation. Studies in rat cardiomyocytes suggest that this gene functions as a transcription factor. Interactions between this protein and the sarcomeric proteins myopalladin and titin suggest that it may also be involved in

the myofibrillar stretch-sensor system. [provided by RefSeq, Jul 2008],

Function: disease:Defects in ANKRD1 may be a cause of total anomalous pulmonary

venous return (TAPVR) [MIM:106700]. TAPVR is a rare congenital heart disease (CHD) in which the pulmonary veins fail to connect to the left atrium during cardiac development, draining instead into either the right atrium or one of its venous tributaries. This disease accounts for 1.5% of all CHDs and has a prevalence of approximately 1 out of 15'000 live births.,function:May play an important role in endothelial cell activation. May act as a nuclear transcription factor that negatively regulates the expression of cardiac genes. Induction seems to be correlated with apoptotic cell death in hepatoma cells.,induction:By TNF, IL1A and parthenolide.,miscellaneous:A chromosomal aberration in the region of ANKRD1 may be a cause of total anomalous pulmonary venous return (TAPVR)

[MIM:106700]. Translocation t(10;21)(q23.31;q11.

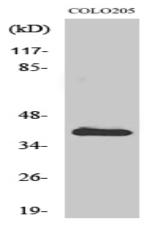
Subcellular Location:

Nucleus.

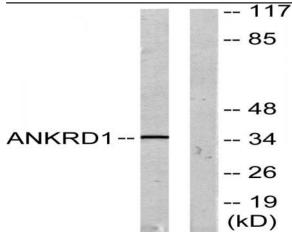
Expression:

Mainly expressed in activated vascular endothelial cells. To a lower extent, also expressed in hepatoma cells.

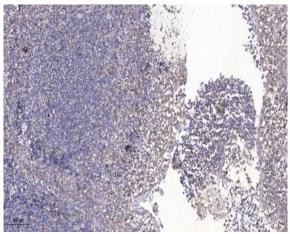
Products Images



Western Blot analysis of various cells using CARP Polyclonal Antibody



Western blot analysis of lysates from COLO205 cells, using ANKRD1 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).