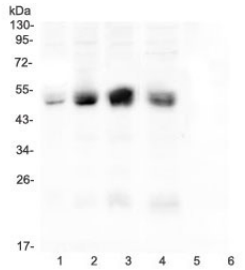
CAR Antibody / Coxsackie Adenovirus Receptor (R30950)

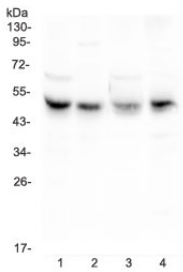
Catalog No.	Formulation	Size
R30950	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P78310
Applications	Western Blot : 0.5-1ug/ml
Limitations	This CAR antibody is available for research use only.



Western blot testing of human 1) A431, 2) HeLa, 3) HepG2, 4) Caco-2, 5) U973 and 6) THP1 cell lysate with CAR antibody at 0.5ug/ml. Expected molecular weight: 40-50 kDa.



Western blot testing of 1) rat liver, 2) rat heart, 3) mouse liver and 4) mouse HEPA1-6 lysate with CAR antibody at 0.5ug/ml. Expected molecular weight: 40-50 kDa.

Description

Coxsackie virus and adenovirus receptor is a protein that in humans is encoded by the CXADR gene, also known as CAR, CVB3-binding protein, and Coxsackievirus B-adenovirus receptor. The cDNA encodes a predicted 365-amino acid polypeptide that contains a single transmembrane domain and is a member of the immunoglobulin superfamily. By Northern blot analysis, the highest expression of 1.4-kb and 6-kb transcripts are in pancreas, brain, heart, small intestine, testis, and prostate, lower expression in liver and lung, and no expression in kidney, placenta, peripheral blood leukocytes, thymus, and spleen. In comparison, mouse CAR showed highest expression in liver, and lower levels in kidney, heart, lung, and brain. The protein encoded by this gene is a type I membrane receptor for group B coxsackie viruses and subgroup C adenoviruses. Pseudogenes of this gene are found on chromosomes 15, 18, and 21. CAR is strongly expressed in the developing central nervous system. It functions as a homophilic and also as a heterophilic cell adhesion molecule through its interactions with extracellular matrix glycoproteins , such as: fibronectin, agrin, laminin-1 and tenascin-R.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the CAR antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Coxsackie Adenovirus Receptor (YSKTQYNQVPSEDFER) was used as the immunogen for this CAR antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the CAR antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com