CD44 (Phospho Ser706) Rabbit pAb

CatalogNo: YP0349 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,ELISA

MW
- 90kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
ELISA 1:20000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human CD44 around the phosphorylation site of Ser706. AA range:681-730
Specificity	Phospho-CD44 (S706) Polyclonal Antibody detects endogenous levels of CD44 protein only when phosphorylated at S706.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):SKsQE

Target Information

Gene name CD44

Protein Name CD44 antigen

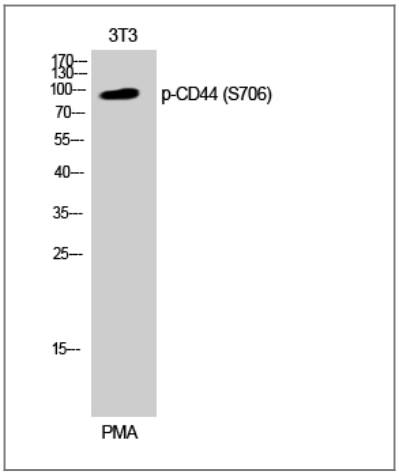
Organism	Gene ID	UniProt ID
Human	960;	P16070;
Mouse	12505;	P15379;
Rat		P26051;

Cellular Localization Cell membrane ; Single-pass type I membrane protein . Cell projection , microvillus . Colocalizes with actin in membrane protrusions at wounding edges. Co-localizes with RDX , EZR and MSN in microvilli. Localizes to cholesterol-rich membrane-bound lipid raft domains. .

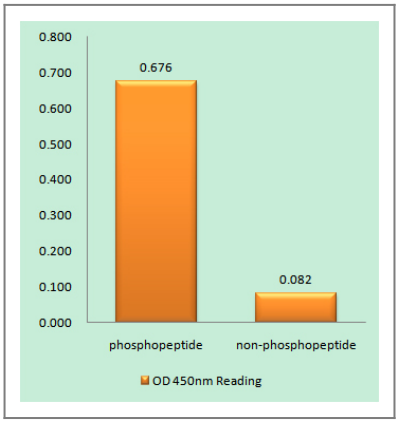
Tissue specificity Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells.

Function Alternative products:Additional isoforms seem to exist. Additional isoforms are produced by alternative splicing of 10 out of 19 exons within the extracellular domain. Additional diversity is generated through the utilization of internal splice donor and acceptor sites within 2 of the exons. A variation in the cytoplasmic domain was shown to result from the alternative splicing of 2 exons. Isoform CD44 is expected to be expressed in normal cells. Splice variants have been found in many tumor cell lines. Exons 5 , 6 , 7 , 8 , 9 , 10 , 11 , 13 , 14 and 19 are alternatively spliced. Experimental confirmation may be lacking for some isoforms ,Function:Receptor for hyaluronic acid (HA) . Mediates cell-cell and cell-matrix interactions through its affinity for HA , and possibly also through its affinity for other ligands such as osteopontin , collagens , and matrix metalloproteinases (MMPs) . Adhesion with HA plays an important role in cell migration , tumor growth and progression. Also involved in lymphocyte activation , recirculation and homing , and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes. Great protein heterogeneity due to numerous alternative splicing and post-translational modification events. ,online information:Blood group antigen gene mutation database ,online information:CD44 entry ,polymorphism:CD44 is responsible for the Indian blood group system. The molecular basis of the In (A) =In1/In (B) =In2 blood group antigens is a single variation in position 46; In (B) , the most frequent allele , has Arg-46. ,PTM:N-glycosylated. ,PTM:O-glycosylated; contains more-or-less-sulfated chondroitin sulfate glycans , whose number may affect the accessibility of specific proteinases to their cleavage site (s) . ,PTM:Phosphorylated; activation of PKC results in the dephosphorylation of Ser-706 (constitutive phosphorylation site) , and the phosphorylation of Ser-672. ,PTM:Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell lines and tumors. ,similarity:Contains 1 Link domain. ,subunit:Interacts with HA , as well as other glycosaminoglycans , collagen , laminin , and fibronectin via its N-terminal segment. Interacts with ANK , the ERM proteins (VIL2 , RDX and MSN) , and NF2 via its C-terminal segment. ,tissue specificity:An epithelial isoform (CD44E) is expressed by cells of epithelium and highly expressed by carcinomas. An hematopoietic isoform (CD44H) is expressed by cells of mesodermal origin. Expression is repressed in neuroblastoma cells. ,

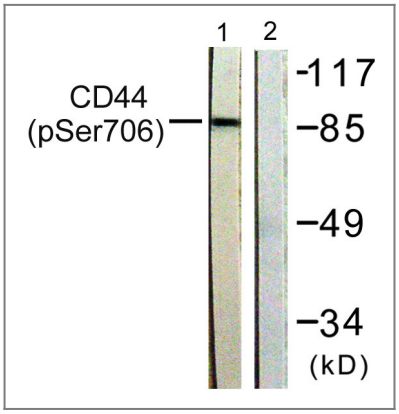
Validation Data



Western Blot analysis of 3T3 cells using Phospho-CD44 (S706) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CD44 (Phospho-Ser706) Antibody



Western blot analysis of lysates from NIH/3T3 cells treated with PMA 250ng/ml 5', using CD44 (Phospho-Ser706) Antibody. The lane on the right is blocked with the phospho peptide.

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Please scan the QR code to access additional product information: **CD44 (Phospho Ser706) Rabbit pAb**