

Chondroadherin Antibody

Catalog # ASC11962

Product Information

Application	WB, E
Primary Accession	O15335
Other Accession	NP_001258 , 153251229
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	40476
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Chondroadherin antibody can be used for detection of Chondroadherin by Western blot at 1 - 2 μ g/ml.

Additional Information

Gene ID	1101
Other Names	Chondroadherin, Cartilage leucine-rich protein, CHAD, SLRR4A
Target/Specificity	CHAD; Chondroadherin antibody is human and mouse reactive. Chondroadherin antibody is predicted to not cross-react with CHADL protein.
Reconstitution & Storage	Chondroadherin antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	Chondroadherin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CHAD
Synonyms	SLRR4A
Function	Promotes attachment of chondrocytes, fibroblasts, and osteoblasts. This binding is mediated (at least for chondrocytes and fibroblasts) by the integrin $\alpha(2)\beta(1)$. May play an important role in the regulation of chondrocyte growth and proliferation (By similarity).
Cellular Location	Secreted, extracellular space, extracellular matrix
Tissue Location	Present in chondrocytes at all ages.

Background

Chondroadherin, also known as CHAD or SLRR4A, belongs to the small leucine-rich proteoglycan (SLRP) family and class IV subfamily and plays a significant role in the regulation of chondrocyte growth and proliferation (1,2). It localizes to the extracellular matrix and contains nine tandem leucine repeats as well as N-terminal and C-terminal leucine rich domains (2-4). Chondroadherin is implicated in the adhesion of fibroblasts, osteoblasts and chondrocytes, which is mediated by interactions with Integrin alpha2 beta1 (2,4,5).

References

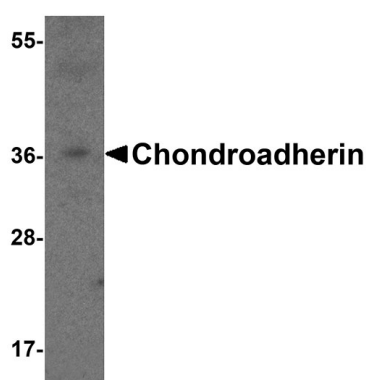
Neame PJ, Sommarin Y, Boynton RE, et al. The structure of a 38-kDa leucine-rich protein (chondroadherin) isolated from bovine cartilage. *J. Biol. Chem.* 1994; 269:21547-54.

Haglund L, Tillgren V, Addis L, et al. Identification and characterization of the integrin alpha2beta1 binding motif in chondroadherin mediating cell attachment. *J. Biol. Chem.* 2011; 286:3925-34.

Mansson B, Wenglen C, Morgelin M, et al. Association of chondroadherin with collagen type II. *J. Biol. Chem.* 2001; 276:32883-8.

Camper L, Heinegard D, and Lundgren-Akerlund E. Integrin alpha2beta1 is a receptor for the cartilage matrix protein chondroadherin. *J. Cell Biol.* 1997; 138:1159-67.

Images



Western blot analysis of Chondroadherin in 3T3 cell lysate with Chondroadherin antibody at 1 µg/ml.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.