

Datasheet for ABIN7320490
CHRD2 Protein (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	CHRD2
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHRD2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse CHL2/CHRD2 Protein (His Tag)
Sequence:	Gln24-Leu426
Characteristics:	Recombinant Mouse Chordin-like protein 2 is produced by our Mammalian expression system and the target gene encoding Gln24-Leu426 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	CHRD2
Alternative Name:	CHL2/CHRD2 (CHRD2 Products)
Background:	Background: Mouse Chordin-Like 2, also known as CHL2, is a novel chordin family member with structural homology to CHL1 which is implicated in tumor angiogenesis. The mouse CHL2 gene encodes a 426 amino acids (aa) protein with a 25 aa signal peptide. The mature chain of

Target Details

CHL2 protein contains two potential N-linked glycosylation sites, one putative NLS and three 63 aa cysteine-rich von Willebrand type C repeats (CRs). CHL2 gene is weakly expressed in the liver and kidney, partly expressed in the connective tissues of reproductive organs such as ligaments of the ovary and oviduct in females, and of testis, epididymis and certain male accessory sex glands in males. Recombinant mCHL2 protein interacted directly with five BMPs and one GDF thereby inhibiting, in vitro, several BMP/GDF-dependent processes including, osteogenic differentiation of C2C12 mesenchymal progenitor cells by several BMPs, ATDC5 embryonal carcinoma cells by GDF5 and BMP4-dependent lymphohematopoietic (CD34+CD31^{hi} and CD34+CD31^{lo}) progenitor cell development from ES cells. CHL2 may inhibits BMPs activity by blocking their interaction with their receptors, and has a negative regulator effect on the cartilage formation/regeneration from immature mesenchymal cells, by preventing or reducing the rate of matrix accumulation. Also, it may play a role during myoblast and osteoblast differentiation, and maturation.

Synonym: Chordin-like protein 2, BNF-1, CHRDL2, chordin-like 2, chordin-like protein 2

Molecular Weight: 46.3 kDa

UniProt: [Q8VEA6](#)

Application Details

Restrictions: For Research Use only

Handling

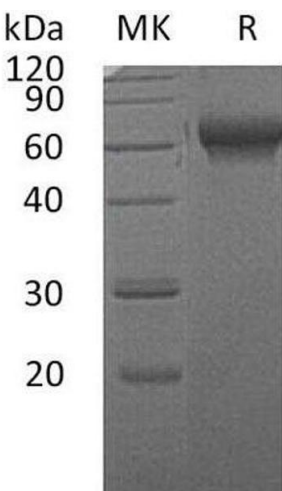
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.