

## Recombinant Human axin 1 Protein, His tagged

**Cat. No.** AXIN1-13H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human axin 1 protein (210-410 aa) with His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 210-410 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | This gene encodes a cytoplasmic protein which contains a regulation of G-protein signaling (RGS) domain and a dishevelled and axin (DIX) domain. The encoded protein interacts with adenomatosis polyposis coli, catenin beta-1, glycogen synthase kinase 3 beta, protein phosphate 2, and itself. This protein functions as a negative regulator of the wingless-type MMTV integration site family, member 1 (WNT) signaling pathway and can induce apoptosis. The crystal structure of a portion of this protein, alone and in a complex with other proteins, has been resolved. Mutations in this gene have been associated with hepatocellular carcinoma, hepatoblastomas, ovarian endometriod adenocarcinomas, and medullablastomas. Alternative splicing results in multiple transcript variants. |
| <b>Molecular Mass</b>   | 24 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MYTRTGSESPKVCSDQSSGSGTGKGISGYLPTLNEDEEWKCDQDMEDDGRDAA<br>PPGRLPQKLLLETAAPRVSSRRYSEGREFRYGSWREPVNPYYVNAGYALAPATSA<br>NDSEQQLSSDADTLSLTDSSVDGIPPYRIRKQHRREMQUESVQVNGRVPLPHIPRTY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|                       |                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | RVPKEVRVEPQKFAEELIHRLEAVQRTREAEKLEHHHHHHHH                                                                                                                          |
| <b>Endotoxin</b>      | < 1 EU/μg by LAL.                                                                                                                                                   |
| <b>Purity</b>         | > 80 % by SDS-PAGE                                                                                                                                                  |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b> | Sterile PBS, pH 7.4, 10 % Glycerol                                                                                                                                  |
| <b>Concentration</b>  | 1 mg/mL by BCA                                                                                                                                                      |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | AXIN1 axin 1 [ Homo sapiens (human) ]                                                                                                                                                                              |
| <b>Official Symbol</b> | AXIN1                                                                                                                                                                                                              |
| <b>Synonyms</b>        | AXIN1; axin 1; axin-1; PPP1R49; protein phosphatase 1; regulatory subunit 49; axis inhibitor 1; fused, mouse, homolog of; axis inhibition protein 1; protein phosphatase 1, regulatory subunit 49; AXIN; MGC52315; |
| <b>Gene ID</b>         | 8312                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>     | NM_003502                                                                                                                                                                                                          |
| <b>Protein Refseq</b>  | NP_003493                                                                                                                                                                                                          |
| <b>MIM</b>             | 603816                                                                                                                                                                                                             |

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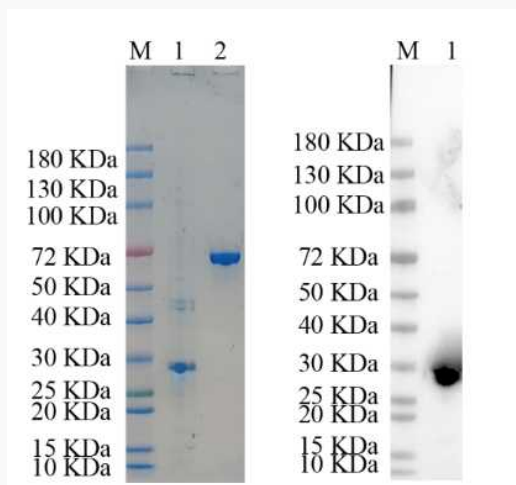
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UniProt ID

O15169

Reducing 4 %-20 %  
SDS-PAGE (CBB  
stained) and WB  
(Anti-His Mouse  
Monoclonal  
antibody) analysis  
profiles of purified  
AXIN1.



1. AXIN1

2. BSA

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