

## Recombinant Full Length Human CD2AP Protein, C-Flag-tagged

**Cat. No.** CD2AP-1802HFL    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human CD2AP Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | This gene encodes a scaffolding molecule that regulates the actin cytoskeleton. The protein directly interacts with filamentous actin and a variety of cell membrane proteins through multiple actin binding sites, SH3 domains, and a proline-rich region containing binding sites for SH3 domains. The cytoplasmic protein localizes to membrane ruffles, lipid rafts, and the leading edges of cells. It is implicated in dynamic actin remodeling and membrane trafficking that occurs during receptor endocytosis and cytokinesis. Haploinsufficiency of this gene is implicated in susceptibility to glomerular disease. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 71.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MVDYIVEYDYDAVHDELTIIRVGEIIRNVKKLQEEGWLEGELNGRRGMFPDNFVKEI<br>KRETEFKDDSLPI KRERHGNVASLVQRISTYGLPAGGIQPHPQTKNIKKKTKKRQCK<br>VLFEYIPQNEDELELKVGDIDINEE VEEGWWSGTLNNKLGLFPSNFVKELEVTDG<br>ETHEAQDDSETVLGPTSPIPSLGNVSETASGSVTQPKK IRGIGFGDIFKEGSVKLRT                                                                                                                                                                                                                                                                                                                                                                              |

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RTSSSETEEEKKPEKPLILQSLGPKTQSVEITKTDTEGKIKAKEYCRTLFA Y EGTNEDE  
 LTFKEGEIIHLISKETGEAGWWRGELNGKEGVFPDNFAVQINELDKDFPKPKKPPPP  
 AKAPAP KPELIAAEKKYFSLKPEEKDEKSTLEQKPSKPAAPQVPPKKPTPPTKASNL  
 LRSSGTVYPKRPEKPVPPP PPIAKINGEVSSISSKFETEPVSKLKL DSEQPLRPKSV  
 DFDSLTVRTSKETDVVNFD DIASSENLLHLT ANRPKMPGRRLPGRFNGGHSPHSP  
 EKILKLPKEEDSANLKPSELKKDTCYSPKPSVYLSTPSSASKANT TAFLTPEIKAKV  
 ETDDVKKNSLDELRAQIIELLCIVEALKKDHGKELEKLRKDL EEEKTMRSNLEMEIE K  
 LKKA VLSS TRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Druggable Genome                                                                                                                              |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

## GENE INFORMATION

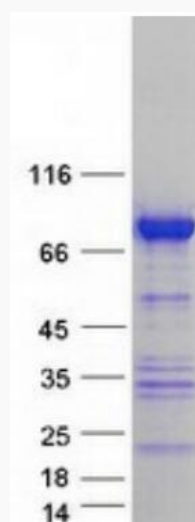
|                        |                                                       |
|------------------------|-------------------------------------------------------|
| <b>Gene Name</b>       | CD2AP CD2 associated protein [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | CD2AP                                                 |

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|                       |             |
|-----------------------|-------------|
| <b>Synonyms</b>       | CMS         |
| <b>Gene ID</b>        | 23607       |
| <b>mRNA Refseq</b>    | NM_012120.3 |
| <b>Protein Refseq</b> | NP_036252.1 |
| <b>MIM</b>            | 604241      |
| <b>UniProt ID</b>     | Q9Y5K6      |



Coomassie blue staining of purified CD2AP protein.