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## Product Datasheet

### Recombinant Human CORO6 (N-6His) EBT-EPT126

|                            |                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article Name               | Recombinant Human CORO6 (N-6His)                                                                                                                                    |
| Biozol Catalog Number      | EBT-EPT126                                                                                                                                                          |
| Supplier Catalog Number    | EPT126                                                                                                                                                              |
| Alternative Catalog Number | EBT-EPT126-10                                                                                                                                                       |
| Manufacturer               | ELK Biotechnology                                                                                                                                                   |
| Category                   | Proteine/Peptide                                                                                                                                                    |
| Product Description        | Recombinant Human Coronin-6 is produced by our E.coli expression system and the target gene encoding Met1-Asp237 is expressed with a 6His tag at the N-terminus.... |
| Molecular Weight           | Molecular weight: 28.3 KDa. Apparent molecular weight: 30-35 KDa, reducing conditions                                                                               |
| UniProt                    | <a href="#">Q6QEF8</a>                                                                                                                                              |
| Purity                     | Greater than 95% as determined by reducing SDS-PAGE.                                                                                                                |

#### Application Notes

Redissolve: Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.. Endotoxin: Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test. Background: Coronin 6, a newly identified member of the coronin family, is highly enriched at adult NMJs and regulates AChR clustering via modulating the interaction between receptors and the actin cytoskeletal network. Coronins are a family of conserved actin-binding proteins originally identified in the actin-rich structure of the amoeba *Dictyostelium discoideum*. To date, seven members of coronins have been identified in mammals, and most exhibit tissue-specific distribution patterns. Coronin 6 is prominently expressed in adult muscle and enriched at the NMJ. Studies with cultured myotubes reveal that Coronin 6 regulates both agrin- and laminin-induced AChR clustering and is important for anchoring AChRs onto the actin cytoskeleton. Also, both the C-terminal region and a conserved Arg29 residue at the N terminus of Coronin 6 are essential for its actin-binding activity and stabilization of AChR-cytoskeleton linkage. Importantly, in vivo knockdown of Coronin 6 in mouse skeletal muscle fibers leads to destabilization of AChR clusters, which demonstrates that Coronin 6 is a critical regulator of AChR clustering at the postsynaptic region of the NMJs through modulating the receptor-anchored actin cytoskeleton. The human Coronin 6 has five isoforms produced by alternative splicing, and tissue-specific expression of these isoforms are unclear.