

LDLR EGF-AB domain H306Y
Human, recombinant protein expressed in *E. coli*.
Sterilized
Cat# CY-R2342

Amount: 50 µg (0.5 µg/µl x 100µl)
Lot:

Introduction:

PCSK9 binds to the LDL receptor *in vitro* through LDLR EGF-A domain. LDLR H306Y is derived from a mutant associated with one of familial hypercholesterolemia. It was reported that the EGF-AB domain H306Y-PCSK9 interaction is pH-independent, in addition, EGF-AB domain H306Y binds PCSK9 50-fold better at low pH.

Product Description:

Human LDLR EGF-AB domain H306Y is expressed in *E.coli*, and purified by GSH-column chromatography, subsequently sequence-specific protease digestion, followed by ion exchange chromatography. Binding capability of the LDLR EGF-AB domain H306Y to recombinant PCSK9 was confirmed by using CircuLex PCSK9-LDLR *in vitro* Binding Assay Kit (Cat# CY-8150). Unused LDLR EGF-AB domain H306Y should be stored at -70°C.

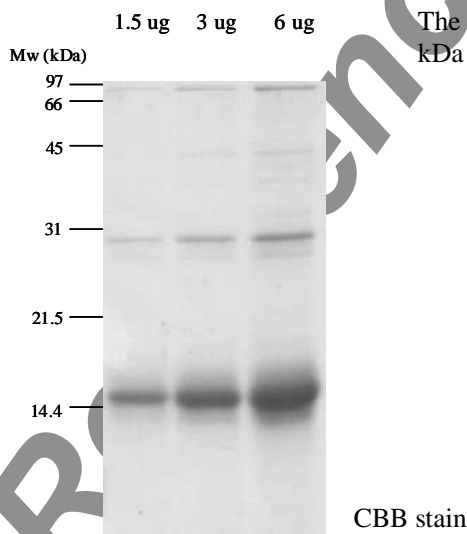
Formulation:

The LDLR EGF-AB domain H306Y is supplied frozen in 20 mM sodium phosphate buffer pH 7.2, 290 mM NaCl and 10 % glycerol.

Purity:

The LDLR EGF-AB domain H306Y is greater than 90 % pure as determined by SDS-PAGE analysis. Main impurities are ~30 kDa and ~70 kDa proteins derived from *E. coli*.

Molecular Weight:



The LDLR EGF-AB domain H306Y demonstrates ~15 kDa by SDS-PAGE analysis.

Storage:

Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, AVOID REPEATED HANDLING AND MULTIPLE FREEZE/THAW CYCLES.

Stability:

Unopened vial at -70 °C, for 1 year after delivery.

General References:

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13. Hyock Joo Kwon, Thomas A. Lagace, Markey C. McNutt, Jay D. Horton, and Johann Deisenhofer (2008) *Proc Natl Acad Sci USA* 105: 1820–1825
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Related Products:

- * CircuLex Mouse/Rat PCSK9 ELISA Kit: Cat# CY-8078
- * CircuLex Human PCSK9 ELISA Kit: Cat# CY-8079
- * CircuLex PCSK9-LDLR in vitro Binding Assay Kit: Cat# CY-8150
- * Anti-Human PCSK9 prodomain monoclonal antibody (KS-3C8): Cat# CY-M1032
- * Anti-Human PCSK9 monoclonal antibody (KS-4H12): Cat# CY-M1033
- * PCSK9 Wild Type in culture medium: Cat# CY-R2310
- * PCSK9 $\Delta(33-53)$ / Wild Type in culture medium: Cat# CY-R2320
- * PCSK9 D374Y in culture medium: Cat# CY-R2311
- * PCSK9 $\Delta(33-53)$ / D374Y in culture medium: Cat# CY-R2321
- * PCSK9 Wild Type/ $\Delta 53$ in culture medium: Cat# CY-R2320
- * PCSK9 Wild Type: Cat# CY-R2330
- * PCSK9 D374Y: Cat# CY-R2331

For Research Use Only, Not for use in diagnostic procedures

- * PCSK9 R194A: Cat# CY-R2333
- * LDLR EGF-AB domain: Cat# CY-R2340
- * LDLR EGF-AB domain, Myc-tagged: Cat# CY-R2341
- * LDLR EGF-AB domain H306Y: Cat# CY-R2342
- * LDLR EGF-AB domain H306Y, Myc-tagged: Cat# CY-R2343

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