

For Research Use Only, Not for use in diagnostic procedures

**PCSK9 D374Y****(Human, His-tagged recombinant protein expressed in HEK 293 cells)****Cat# CY-R2331****Sterile condition**  
**Lot No.**  
**(100 µg/mL x 100 µL)**

**Product Description:** PCSK9 binds to the LDL receptor *in vitro* and *in vivo*. Human PCSK9 D374Y containing a C-terminal His-tag, expressed in HEK 293 cells. Binding capability to EGF-AB domain of LDL receptor was confirmed by using CircuLex PCSK9-LDLR *in vitro* Binding Assay Kit (CY-8150). Purified by Ni-chelating chromatography. Unused PCSK9 D374Y should be stored at -70°C.

**Product Size:** 100 µg/mL x 100 µL. The concentration of PCSK9 D374Y was determined by CircuLex PCSK9 ELISA Kit (CY-8079) using purified PCSK9 Wild Type (Cat# CY-R2330) as a standard.

**Formulation:** The PCSK9 D374Y is supplied frozen in PBS pH 7.2, 10 % glycerol.

**Source:** Full length human PCSK9 having one mutation D374Y, containing C-terminal His-tag, expressed in HEK 293 cells.

**Molecular Weight:** The PCSK9 D374Y demonstrates 64 kDa (catalytic and C-terminal domain) and 16 kDa (prodomain band) by SDS-PAGE analysis.

**Purity:** The PCSK9 D374Y is greater than 95 % pure as determined by SDS-PAGE analysis.

**Storage and Stability:** Stable for 12 months at -70°C from date of shipment. Aliquot protein to avoid repeated freezing and thawing.

**Fig.1** SDS-PAGE analysis of the PCSK9 D374Y (CBB staining)

Mw (kDa)

97 —

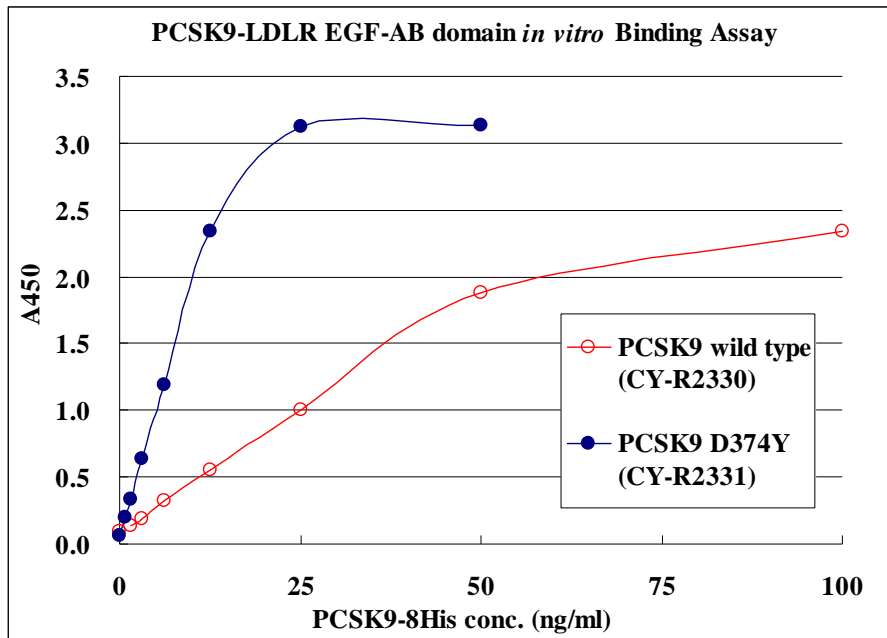
66 —

45 —

31 —

21.5 —

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**Fig.2 Binding capability to EGF-AB domain of LDL receptor was confirmed by using CircuLex PCSK9-LDLR *in vitro* Binding Assay Kit (CY-8150)****General References:**

1. Seidah NG, Benjannet S, Wickham L, Marcinkiewicz J, Jasmin SB, Stifani S, Basak A, Prat A, Chretien M (2003) Proc Natl Acad Sci USA 100:928–933.
2. Abifadel M, Varret M, Rabes JP, Allard D, Ouguerram K, Devillers M, Cruaud C, Benjannet S, Wickham L, Erlich D, et al. (2003) Nat Genet 34:154–156.
3. Leren TP (2004) Clin Genet 65:419–422.
4. Allard D, Amsellem S, Abifadel M, Trillard M, Devillers M, Luc G, Krempf M, Reznik Y, Girardet JP, Fredenrich A, et al. (2005) Hum Mutat 26:497.
5. Cohen JC, Boerwinkle E, Mosley TH, Jr, Hobbs HH (2006) N Engl J Med 354, 1264–1272.
6. Berge KE, Ose L, Leren TP (2006) Arterioscler Thromb Vasc Biol 26:1094–1100.
7. Maxwell KN, Breslow JL (2004) Proc Natl Acad Sci USA 101:7100–7105.
8. Rashid S, Curtis DE, Garuti R, Anderson NN, Bashmakov Y, Ho YK, Hammer RE, Moon YA, Horton JD (2005) Proc Natl Acad Sci USA 102:5374–5379.
9. Lagace, T. A., Curtis, D. E., Garuti, R., McNutt, M. C., Park, S. W., Prather, H. B., Anderson, N. N., Ho, Y. K., Hammer, R. E., and Horton, J. D. (2006) J. Clin. Investig. 116, 2995–3005
10. Cameron, J., Holla, O. L., Ranheim, T., Kulseth, M. A., Berge, K. E., and Leren, T. P. (2006) Hum.

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Mol. Genet. 15, 1551–1558

11. Zhang, D. W., Lagace, T. A., Garuti, R., Zhao, Z., McDonald, M., Horton, J. D., Cohen, J. C., and Hobbs, H. H. (2007) J. Biol. Chem. 282, 18602–18612
12. Hyock Joo Kwon\*, Thomas A. Lagace†, Markey C. McNutt†, Jay D. Horton†‡, and Johann Deisenhofer (2008) ) Proc Natl Acad Sci USA 105: 1820–1825.

**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
- \* 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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