



## CellFace™ Cell-Antibody (Anti-NOTCH2) Conjugation

Cat. No.: CF-0922-ZP310

This product is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Overview

**Description**

Employing live cells as therapeutics is a direction of future drug discovery. An easy and robust method to modify the surfaces of cells directly to incorporate novel functionalities is highly desirable. However, genetic methods for cell-surface engineering are laborious and limited by low efficiency for primary cell modification. Creative Biolabs has developed a single-step chemoenzymatic CellFace™ technology platform to transfer bio-macromolecules, such as an IgG antibody (MW~ 150 KD), to the glycocalyx on the surfaces of live cells. Requiring no genetic modification, our CellFace™ allows for any antibody to be conjugated to the stimulatory surface receptors of immune cells to yield the additive effect of superior tumor targeting to its already potent and off-the-shelf biologic drug payloads.

We applied CellFace™ to construct the CellFace™ cell-antibody conjugation (CAC). CellFace™ CAC can be prepared from multiple immune cells and stem cells, such as T cells, NK cells, macrophages, and mesenchymal stem cells. The modified CAC is expected to overcome the challenges that have prevented cell therapies from effectively targeting solid tumors.

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| Available Formats    | CellFace™ T Cell-Antibody (Anti-NOTCH2) Conjugation<br>CellFace™ NK Cell-Antibody (Anti-NOTCH2) Conjugation<br>CellFace™ MA Cell-Antibody (Anti-NOTCH2) Conjugation<br>CellFace™ MSC Cell-Antibody (Anti-NOTCH2) Conjugation<br>CellFace™ HSC Cell-Antibody (Anti-NOTCH2) Conjugation |
| Engineered Molecules | Antibody                                                                                                                                                                                                                                                                              |
| Cell Type            | T Cell; NK Cell; Macrophage; HSC; MSC; TIL; CIK; γδ T Cell; Treg; Dendritic Cell; Fibroblast; Chondrocyte; iPSC; B Cell                                                                                                                                                               |
| Application Notes    | The CAC can be customized with both cell lines and primary cells according to customer needs. Please contact us for specific cells you needs.                                                                                                                                         |

### Target

|        |        |
|--------|--------|
| Target | NOTCH2 |
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| Official Name | NOTCH2                                                                                                                                                                                                                                |
| Full Name     | Notch 2                                                                                                                                                                                                                               |
| Synonyms      | Tarextumab; 1359940-55-8; OMP-59R5; 59M07; 13M57; anti-Notch2/3; OMP-59R5; NOTCH2; notch 2; Notch (Drosophila) homolog 2; Notch homolog 2 (Drosophila); ne urogenic locus notch homolog protein 2; Notch homolog 2; hN2; AGS2; HJCYS; |

## Quality Control

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|-------------------|---------------------------------------------------------------|
| Research Use Only | For research use only, not for diagnostic or therapeutic use. |
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