

#17923 Store at -20C

XCR1 (D2F8T) & CO-0015-750 SignalStar™ Oligo-Antibody Pair

1 Kit (10 slides)

UniProt ID: #P46094 Entrez-Gene Id: #2829



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Product Includes	Item #	Volume	Reactivity	Isotype
XCR1 (D2F8T) Rabbit mAb (SignalStar™ Conjugate 0015)	25185	50 µl	H	Rabbit IgG
Complementary Oligo (CO-0015-750)	29828	22 µl		

Storage SignalStar conjugates are supplied in PBS (pH 7.2), less than 0.1% sodium azide, 2 mM EDTA, 0.05% Triton X-100, 2 mg/mL BSA, and 50% glycerol. Complementary oligos are supplied in nuclease-free water. Store at -20°C. *Do not aliquot the antibody.* All components in this kit are stable for at least 12 months when stored at the recommended temperature.

Description SignalStar multiplex immunohistochemistry (IHC) is an advanced technology for labeling multiple proteins simultaneously in tissue samples using specific primary antibodies and fluorescent detection reagents. This technology offers accuracy and reliability in visualizing and analyzing protein expression while maintaining spatial context and tissue architecture.

SignalStar Oligo-Antibody Pairs are compatible with the SignalStar Multiplex IHC Buffer Kits for use in fluorescent multiplex imaging experiments. This product includes the oligo-conjugated antibodies and complementary oligos required for labeling your target protein on up to 10 slides. SignalStar Multiplex IHC Buffer Kits are required to amplify and image the target signal. Multiple oligo-antibody pairs can be conveniently combined into a multiplex panel using the SignalStar Multiplex IHC Panel Builder. SignalStar Multiplex IHC Kits & Reagents are not compatible with all of Cell Signaling Technology® products and protocols that are recommended for use in immunohistochemical assays.

Specificity/Sensitivity XCR1 (D2F8T) Rabbit mAb (SignalStar™ Conjugate 0015) recognizes endogenous levels of total XCR1 protein by IHC-P and transfected levels of XCR1 protein by western. Staining of unknown specificity in peripheral nerves has been observed by immunohistochemistry.

Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human XCR1 protein.

Background X-C motif chemokine receptor 1 (XCR1, GPR5, CCXCR1), part of the G protein-coupled superfamily, is expressed by a subset of dendritic cells and acts as a receptor for chemokines XCL1 and XCL2 (1,2,4). XCR1-positive dendritic cells cross-present antigens to naïve CD8⁺ T cells, priming them to become activated cytotoxic CD8⁺ T cells (3-5). In mouse models, the XCL1-XCR1 signaling axis was shown to be involved in the formation of self-tolerance through the development of T_{reg} cells within the thymus (6).

Background References

1. Yoshida, T. et al. (1998) *J Biol Chem* 273, 16551-4.
2. Fox, J.C. et al. (2015) *Cytokine* 71, 302-11.
3. Dorner, B.G. et al. (2009) *Immunity* 31, 823-33.
4. Kroczyk, R.A. and Henn, V. (2012) *Front Immunol* 3, 14.
5. Bachem, A. et al. (2010) *J Exp Med* 207, 1273-81.
6. Lei, Y. et al. (2011) *J Exp Med* 208, 383-94.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Cross-Reactivity Key **H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. SignalStar is a trademark of Cell Signaling Technology, Inc. U.S. Patent No. 10,781,477, foreign equivalents, and child patents deriving therefrom.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.