

CXCL10 (D5L5L) Rabbit mAb

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

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	10	Rabbit IgG	#P02778	3627

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

CXCL10 (D5L5L) Rabbit mAb recognizes endogenous levels of total CXCL10 protein. This antibody also cross-reacts with a 100kDa protein of unknown origin in some cell lines.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to human CXCL10 protein.

Background

C-X-C motif chemokine ligand 10 (CXCL10, IP-10) is a chemokine produced by several cell types and induced in response to pro-inflammatory cytokines, such as IFN-γ and TNF-α (1,2). CXCL10 binds to the chemokine receptor CXCR3 and induces calcium flux and cell migration (3). The CXCR3 protein is normally expressed on activated CD4⁺ T cells and NK cells, which can produce pro-inflammatory cytokines, including IFN-γ and TNF-α (3,4). As a result, these molecules act in an amplification loop to promote immune responses in the contexts of both autoimmunity and a tumor immune response (5,6).

Background References

1. Shin, S.Y. et al. (2010) *J Biol Chem* 285, 30731-40.
2. Luster, A.D. and Ravetch, J.V. (1987) *J Exp Med* 166, 1084-97.
3. Loetscher, M. et al. (1996) *J Exp Med* 184, 963-9.
4. Kajitani, K. et al. (2012) *Breast Cancer Res Treat* 134, 139-55.
5. Luster, A.D. and Leder, P. (1993) *J Exp Med* 178, 1057-65.
6. Antonelli, A. et al. (2014) *Autoimmun Rev* 13, 272-80.

Species Reactivity

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

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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