Revision 6

Store at +4C

#90180

TNFRSF8/CD30 (E7E4D) XP® Rabbit mAb (Alexa Fluor® 555 Conjugate)

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-L	H Mk	Endogenous	Rabbit IgG	#P28908	943

Product Usage Information

Application	Dilution
Flow Cytometry (Live)	1:50

Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity/Sensitivity

TNFRSF8/CD30 (E7E4D) XP® Rabbit mAb (Alexa Fluor® 555 Conjugate) recognizes endogenous levels of total TNFRSF8/CD30 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the extracellular domain of human TNFRSF8/CD30 protein.

Description

This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 555 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated TNFRSF8/CD30 (E7E4D) XP® Rabbit mAb #25114.

Background

TNFRSF8/CD30 is a type-I transmembrane glycoprotein that is a member of the TNFR superfamily. CD30 is synthesized as a precursor protein that undergoes extensive post-translational modification before becoming embedded in the plasma membrane as a 120-kDa transmembrane protein (1,2). The expression of CD30 is upregulated in activated T cells and may trigger costimulatory signaling pathways upon its engagement (3,4). While its expression is normally restricted to subsets of activated T cells and B cells, CD30 expression is robustly upregulated in hematologic malignancies, such as Hodgkin lymphoma (HL), anaplastic large cell lymphoma (ALCL), and adult T-cell leukemia, thus making it an attractive target for therapeutic intervention (5,6). Research studies have suggested that in certain disease contexts, CD30 recruits TRAF2 and TRAF5 adaptor proteins to drive NF-kappa B activation, aberrant cell growth, and cytokine production (7-9). CD30 signaling is also regulated by TACE-dependent proteolytic cleavage of its ectodomain, which results in reduced CD30L-dependent activation of $CD30^+$ cells (10,11).

Background References

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3. Del Prete, G. et al. (1995) *J Exp Med* 182, 1655-61.
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5. Stein, H. et al. (1985) *Blood* 66, 848-58.
6. Chiarle, R. et al. (1999) *Clin Immunol* 90, 157-64.
7. Horie, R. et al. (2002) *Am J Pathol* 160, 1647-54.
8. Horie, R. et al. (2002) *Oncogene* 21, 2493-503.
9. Horie, R. et al. (2004) *Cancer Cell* 5, 353-64.
10. Hansen, H.P. et al. (2000) *J Immunol* 165, 6703-9.
11. Gruss, H.J. et al. (1997) *Immunol Today* 18, 156-63.

Species Reactivity

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

Applications Key

FC-L: Flow Cytometry (Live)

Cross-Reactivity Key

H: Human **Mk:** Monkey

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KARPAS cell line source: Dr. Abraham Karpas at the University of Cambridge.

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