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TNFRSF8/CD30 (E7E4D) XP® Rabbit mAb

Cell Signaling TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-Bond, IHC-P, IF-IC, FC-L	H Mk	Endogenous	90, 120	Rabbit IgG	#P28908	943

Product Usage Information

Application	Dilution
Western Blotting	1:1000
IHC Leica Bond	1:50
Immunohistochemistry (Paraffin)	1:50
Immunofluorescence (Immunocytochemistry)	1:400
Flow Cytometry (Live)	1:200 - 1:800

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.

For a carrier free (BSA and azide free) version of this product see product #18445.

Specificity / Sensitivity

TNFRSF8/CD30 (E7E4D) XP® Rabbit mAb 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.

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

1. Froese, P. et al. (1987) *J Immunol* 139, 2081-7.
2. Nawrocki, J.F. et al. (1988) *J Immunol* 141, 672-80.
3. Del Prete, G. et al. (1995) *J Exp Med* 182, 1655-61.
4. Gilfillan, M.C. et al. (1998) *J Immunol* 160, 2180-7.
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).

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

WB: Western Blotting **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)
IF-IC: Immunofluorescence (Immunocytochemistry) **FC-L:** Flow Cytometry (Live)

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

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