

Store at
-20C
#48750**CD20 (E7B7T) XP[®] Rabbit mAb**

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

Applications: W, IP, IHC-Bond, IHC-P, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 30-40	Source/Isotype: Rabbit IgG	UniProt ID: #P11836	Entrez-Gene Id: 931
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
IHC Leica Bond
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:200 - 1:800
1:100 - 1:400
1:1600 - 1:3200

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 #92688.

Specificity/Sensitivity

CD20 (E7B7T) XP[®] Rabbit mAb recognizes endogenous levels of total CD20 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with human CD20 recombinant protein.

Background

B-lymphocyte antigen CD20 (also known as MS4A1; Membrane-spanning 4-domains subfamily A member 1) is a cell surface phosphoprotein involved in the regulation of B cell activation and proliferation (1,2). It is commonly used as a marker to identify B cells and is expressed throughout B cell development, up until their differentiation into plasma cells. CD20 has no known ligand, and its expression and function are largely conserved between human and mouse (1-3). Evidence suggests that CD20 is necessary for store operated calcium (SOC) entry, which leads to elevated cytoplasmic calcium levels required for B cell activation (4,5). Anti-CD20 antibody immunotherapy depletes B cells by activation of the innate monocytic network and is a common treatment for B cell lymphomas, leukemias, and autoimmune diseases (6).

Background References

1. Stashenko, P. et al. (1980) *J Immunol* 125, 1678-85.
2. Tedder, T.F. et al. (1985) *J Immunol* 135, 973-9.
3. Tedder, T.F. et al. (1988) *J Immunol* 141, 4388-94.
4. Bubien, J.K. et al. (1993) *J Cell Biol* 121, 1121-32.
5. Li, H. et al. (2003) *J Biol Chem* 278, 42427-34.
6. Uchida, J. et al. (2004) *J Exp Med* 199, 1659-69.

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 **IP:** Immunoprecipitation **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **Mk:** Monkey

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