CD19 (Intracellular Domain) (D4V4B) XP® Rabbit mAb



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

| Reactivity: H M Mk | Sensitivity: Endogenous | MW (kDa): 95 | Source/Isotype: Rabbit IgG | UniProt ID: #P15391 | Entrez-Gene Id 930 |
|--|--|---|--|---|--|
| Ар | Application | | | Dilution | |
| We | Western Blotting | | | 1:1000 | |
| Imi | Immunoprecipitation | | | 1:100 | |
| IHO | IHC Leica Bond | | | 1:800 - 1:3200 | |
| Imi | Immunohistochemistry (Paraffin) | | | 1:1600 - 1:6400 | |
| Flo | Flow Cytometry (Fixed/Permeabilized) | | | 1:6400 - 1:12800 | |
| | • | ** | ** | | erol and less than |
| For | For a carrier free (BSA and azide free) version of this product see product #86916. | | | | |
| , | CD19 (Intracellular Domain) (D4V4B) $XP^{\texttt{@}}$ Rabbit mAb recognizes exprotein. | | | | of total CD19 |
| to Bov D% gy: | ine | | | | |
| | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu427 of human CD19 protein. | | | | |
| CD: con mol prog tyro rece ena | CD19 is a 95 kDa coreceptor which amplifies the signaling cascade in B cells (1). On the B cell surface, CD19 associates with CD21, CD81, and Leu-13 to exert its function. The cytoplasmic tail of CD19 has nine conserved tyrosine residues playing critical roles in CD19 mediated function by coupling signaling molecules to the receptor (1). After B cell receptor or CD19 ligation, Tyr531 and Tyr500 of CD19 are progressively phosphorylated. This phosphorylation enables the coupling of PI3 kinase and Src family tyrosine kinase to CD19 and activates the PI3K and Src signaling pathways (2,3). Coligation of B cell receptor and CD19 also promotes Tyr409 phosphorylation in CD19. The phosphorylation at these sites enables its binding to Vav and mediates elevated intracellular calcium response, as well as the JNK pathway (4,5). | | | | |
| 2. B 3. F 4. C | Tedder, T.F. et al. (1997) Immunity 6, 107-18. Buhl, A.M. and Cambier, J.C. (1999) J Immunol 162, 4438-46. Fujimoto, M. et al. (2000) Immunity 13, 47-57. O'Rourke, L.M. et al. (1998) Immunity 8, 635-45. Sato, S. et al. (1997) Proc Natl Acad Sci U S A 94, 13158-62. | | | | |
| | Ap We Imi IHC Imi Flo Sup 0.02 For tivity CD2 prot to Bov 0% gy: CD2 con: moli prog tyro rece ena patr ences 1. To 2. B 3. F 4. O | Application Western Blotting Immunoprecipitation IHC Leica Bond Immunohistochemistry Flow Cytometry (Fixed Supplied in 10 mM sodi 0.02% sodium azide. S For a carrier free (BSA tivity CD19 (Intracellular Don protein. Bovine Monoclonal antibody is residues surrounding Le CD19 is a 95 kDa corec CD19 associates with C conserved tyrosine resi molecules to the recept progressively phosphor tyrosine kinase to CD19 receptor and CD19 also enables its binding to V pathway (4,5). ences 1. Tedder, T.F. et al. (19 2. Buhl, A.M. and Camb 3. Fujimoto, M. et al. (20 4. O'Rourke, L.M. et al. | Application Western Blotting Immunoprecipitation IHC Leica Bond Immunohistochemistry (Paraffin) Flow Cytometry (Fixed/Permeabilized) Supplied in 10 mM sodium HEPES (pH of of a carrier free (BSA and azide free) with the companient of the companien | Application Western Blotting Immunoprecipitation IHC Leica Bond Immunohistochemistry (Paraffin) Flow Cytometry (Fixed/Permeabilized) Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 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 se CD19 (Intracellular Domain) (D4V4B) XP® Rabbit mAb recognized protein. Bovine Monoclonal antibody is produced by immunizing animals with a seresidues surrounding Leu427 of human CD19 protein. CD19 is a 95 kDa coreceptor which amplifies the signaling casce CD19 associates with CD21, CD81, and Leu-13 to exert its function conserved tyrosine residues playing critical roles in CD19 media molecules to the receptor (1). After B cell receptor or CD19 ligation progressively phosphorylated. This phosphorylation enables the tyrosine kinase to CD19 and activates the P13K and Src signaling receptor and CD19 also promotes Tyr409 phosphorylation in CD enables its binding to Vav and mediates elevated intracellular capathway (4,5). ences 1. Tedder, T.F. et al. (1997) Immunity 6, 107-18. 2. Buhl, A.M. and Cambier, J.C. (1999) J Immunol 162, 4438-46. 3. Fujimoto, M. et al. (2000) Immunity 13, 47-57. 4. O'Rourke, L.M. et al. (1998) Immunity 8, 635-45. | Application Western Blotting Immunoprecipitation IHC Leica Bond Immunohistochemistry (Paraffin) Flow Cytometry (Fixed/Permeabilized) Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glyce 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 #86916. CD19 (Intracellular Domain) (D4V4B) XP® Rabbit mAb recognizes endogenous levels protein. Bovine Monoclonal antibody is produced by immunizing animals with a synthetic peptide corre residues surrounding Leu427 of human CD19 protein. CD19 is a 95 kDa coreceptor which amplifies the signaling cascade in B cells (1). On the CD19 associates with CD21, CD81, and Leu-13 to exert its function. The cytoplasmic toconserved tyrosine residues playing critical roles in CD19 mediated function by coupling molecules to the receptor (1). After B cell receptor or CD19 ligation, Tyr531 and Tyr500 progressively phosphorylated. This phosphorylation enables the coupling of P13 kinase tyrosine kinase to CD19 and activates the P13K and Src signaling pathways (2,3). Colig receptor and CD19 also promotes Tyr409 phosphorylation in CD19. The phosphorylation enables the binding to Vav and mediates elevated intracellular calcium response, as we pathway (4,5). ences 1. Tedder, T.F. et al. (1997) Immunity 6, 107-18. 2. Buhl, A.M. and Cambier, J.C. (1999) J Immunol 162, 4438-46. 3. Fujimoto, M. et al. (2000) Immunity 13, 47-57. 4. O'Rourke, L.M. et al. (1998) Immunity 8, 635-45. |

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 IP: Immunoprecipitation IHC-Bond: IHC Leica Bond

IHC-P: Immunohistochemistry (Paraffin) FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

3/23/24. 11:30 AM

CD19 (Intracellular Domain) (D4V4B) XP® Rabbit mAb (#90176) Datasheet Without Images Cell Signalin...

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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