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Polyclonal antibodies against human CD20

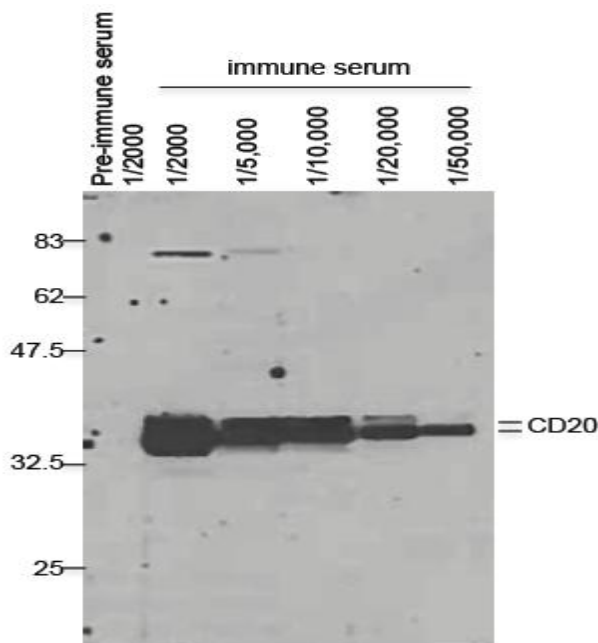
Technology ID# 345.4

Background

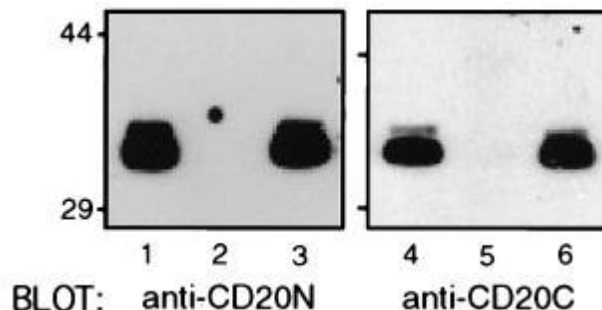
University of Calgary researcher Dr. Julie Deans has produced three affinity-purified, polyclonal antibodies against human CD20. CD20 is a cell-surface protein expressed in most immune cells arising from the B-cell lineage and plays a role in cellular activation and proliferation. Importantly, CD20 is a recognized biomarker for a number of human disorders, including several autoimmune diseases and B-cell malignancies. As such, quality antibodies against CD20 are valuable for both pre-clinical and clinical research applications. These particular antibodies have little cross-reactivity and have been used successfully for immunoblotting, immunofluorescence and immunoprecipitation. Dr. Deans' lab is a leader in the field of CD20 research, and these antibodies have been used in numerous high-impact peer-reviewed journals.

Areas of Application

- Inflammation and Immunology
- Oncology



Western blots of human Ramos B cell lysates probed with rabbit anti-CD20 targeting the C-terminal residues 280-297 (first described in Petrie et al. (2002)).



Western blots of human Ramos B-cells lysates probed with rabbit anti-CD20N (targeting the N-terminal residues 25-41) and rabbit anti-CD20C (targeting the C-terminal residues 231-245), pre-incubated with immunizing peptide (lanes 2 and 5), irrelevant peptide (lanes 3 and 6) or no peptide (lanes 1 and 4) (Polyak et al. (1998)).

Publications

- Maria J. Polyak, Sweta H. Taylor and Julie P. Deans (1998) *J Immunol* ; 161:3242-3248.
- Ryan J. Petrie and Julie P. Deans (2002) *J Immunol*; 169:2886-2891.
- Deans JP, Robbins SM, Polyak MJ, Savage JA (1998) *J Biol Chem.* Jan 2;273(1):344-8.
- Popoff IJ, Savage JA, Blake J, Johnson P, Deans JP (1998) *Mol Immunol.* Mar;35(4):207-14.
- Polyak MJ, Deans JP (2002) *Blood.* May 1;99(9):3256-62.
- Polyak MJ, Ayer LM, Szczepek AJ, Deans JP (2003) *Leukemia.* Jul;17(7):1384-9
- Li H, Ayer LM, Lytton J, Deans JP (2003) *J Biol Chem.* Oct 24;278(43):42427-34.
- Li H, Ayer LM, Polyak MJ, Mutch CM, Petrie RJ, Gauthier L, Shariat N, Hendzel MJ, Shaw AR, Patel KD, Deans JP (2004) *J Biol Chem.* May 7;279(19):19893-901.
- Unruh TL, Li H, Mutch CM, Shariat N, Grigoriou L, Sanyal R, Brown CB, Deans JP (2005) *Immunology.* Oct;116(2):223-32.
- Polyak MJ, Li H, Shariat N, Deans JP (2008) *J Biol Chem.* Jul 4;283(27):18545-52.
- Sarro SM, Unruh TL, Zuccolo J, Sanyal R, Luider JM, Auer-Grzesiak IA, Mansoor A, Deans JP (2010) *Leuk Res.* Dec;34(12):1670-3.