

Appendix B

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Bactrian_IgM : ESSSAPTLFPLASCESPVSDSPVALGCLARDFLPDSITFSWSYPDGIAVSSQSIKTFPSVLREGKYVATSQVLLPSQSVLQGSE--LIQKV : 90
Dromedary_IgM : .....Q....G.....T..... : 90
Alpaca_IgM : .....G..... : 89
Human_IgM : -.A.....V..NSP..T.S.....Q.....L..K.KNNSD...-T.G.....G...A.....KD....DEH... : 89
Mouse_IgM : ..Q.F.N.....V.....KNL.....S.....N.QNNT.E.IQG-.....RTG.....SPK.....DEY... : 91

Bactrian_IgM : QHSGKGLDVRVTPPVVLDLPPNVTLFMPPRDGFGSGTSKRTSRLLCQATDFSPREISVSWFREGKRLVSGFITEDVEASM--SNPGTFVNSM : 180
Dromedary_IgM : .....P.I..... : 180
Alpaca_IgM : .....S..-V.LP.....S.....K-.....I... : 178
Human_IgM : ..FN..KEKN.PL.-AE..K.....F.-NP.K.....G.....Q...L...Q.G..VT.DQ...EAKE.G.T..K.T.T : 179
Mouse_IgM : HYGGK.R..H.PI.A.AE.N...N.....PAP.K.....N.T..P...L.D..L.E...T.DP.TIENKG.T.Q..K.I.T : 183

Bactrian_IgM : LTITEGDFEGQTVYTCQVEHRGMVIEKNVGFQCNPS-PSPGIEAFAPFGFSDIFLNKSAKLTCLVLTGLVTYDGLGIGWTRQGEKAVDGGQIT : 271
Dromedary_IgM : .....S.....-.....R.....I... : 271
Alpaca_IgM : ..DG...A.....S...-V.....R.....I... : 268
Human_IgM : ..K...LG.A...R.D...TF.Q.A.SM.V.-QDTA.RV.....AS..T.T...D.T.....NGE..K.HTN : 269
Mouse_IgM : ....I..LNLN...R.D...TFL...STAAARG..TD.LT.T...A...S...N...N.A.E..N...AS.SGEP.E.K.K : 275

Bactrian_IgM : DSRILPNGTFSATCVASVGVEDWESGDRFTCTVTHLDLPSPLKRSIFKPKTEVHKHMPVYVLPAPPAREQLSLRESASITCLVKGFSPPDFVQ : 363
Dromedary_IgM : ..T..... : 363
Alpaca_IgM : ..T..... : 359
Human_IgM : I.ESH..A...VGE...ED..N.E...T...Q..S..KG.AL.R.D...N.....T...A... : 361
Mouse_IgM : IMESH.....KG.....NNRKE.V.....R.....O..F.S..N.....P.A.....N.....A..S... : 367

Bactrian_IgM : WLKKGEQEPLSPDNYVTSAPVPEPNSPGYFVHVSILTVSEKDSAGATYTCVVGHEALPHLVTERTVDKSTGKPTLYNVSLVMSDTASTCY : 454
Dromedary_IgM : ..... : 426
Alpaca_IgM : ..... : 450
Human_IgM : ..Q...-E.K.....QA..R.A.....EE..NT.E...A-...NR.....G... : 449
Mouse_IgM : ..Q...-L.PQEK.....GA...T.....EE..NS.E...-L.PQEK.....GG... : 456

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Fig. S1 Alignment of IgM amino acid sequences from five species. Dots denote identical amino acids, whereas dashes indicate gaps. Canonical Cys and Trp residues are shaded, and the conserved N-linked glycosylation sites are shown in red.