Figure S4. Variable degree of conservation of P2X7 putative LPS and GDP binding motifs in other ZCD containing proteins.

Residues consistent with consensus LBP/BPI from ref Denlinger et al J Immunol 2001; 167:1871-1876 are in bold and blue. Residues not consistent with the consensus are highlighted in grey. Sequences of ZCD containing proteins are as in Figure 5.

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                                                 LPS binding motif
Hosa_LPBmotif                          GRWKVRKSFFKLQGSFDV
Hosa_BPImotif                          GKWKAQKRFLKMSGNKDL      a:aromatic, h :hydrophobic
Consensus Denlinger                    x+W+hRKxFhKxpGpaph      p:polar, x :random, -:acidic
Dare LBP                               GRWRTKFGIITDSGSFDV-     and + :basic

Tetraodon BPI-like                     GNWRVKYRWVKNSGSFD

Hosa_P2RX7     NSRLRHCAYRCYATWRFG--SQDMADFAILPSCCRWRIRKEFPKSEGQYSGFKSPY----
Aime_P2RX7     -SRLRHCAYRCYTTWRFG--SPDLADFAILPSCCRWRIRREFPKSEGQYTGFQSPY
Darer_P2X7     -SQLRHGAYAQFIRWRFGD-STPRDALPVIPSCCIWRIRAEYPSPDGTYRGLRSFQVITSQTEVNR
Dare_nanor            NFIFLCWS-DVGQQTRAVIPSCVAGRMRQKLPEGNENYNGLFPRPL----------
Dare_nanorb           NIVWWCWG-YLGREIRVVIPSCAVTRIRQEFPDENENYTGYLPRPM----------
Elel_nanor            KCIICWNREFLGRLSRIPIPSFVVNHIGQTFPNEHGLP--------------
Krma_nanor            QFVSWCWS-FLGEHIRVVLPSCVVSKIRAFFPPPGLEENFVFTGFLD----------
Stpu_ZCD       NRAMRHAAYRCFVFWQHG--RLGQGNRRVIPSCCVSEIRGMYPSATVVLRK---------
Sako_ZCD       NACFRHYAYRQFIYWQYG--RLGKGNRRVVPSCCVWAVRRRFPSPNNVYVGFKEGAIQD-
Amqu_ZCD       PESFRKAAYRQYILWKYK--KLGKGNRRVCPSCVVNCIREWYPSSTGRYMGFRSE-----
Polu_ZCD       TQSYRKAAYRQYTLWKFG--KLGRGNRKILPSCVVIVIRRAYPAPDGNYMGFRRS-----
Aipt_ZCD1      TSSFRKAAYRQFILWEHG--KLGRGNRRILPSCDVKKVRAKYPAPDNVVMGFMAE-----
Aipt_ZCD2      MEGFRKAGYRQFALWRYG--KLGRGNRRILPACVVKRIRAQYPAPDGRYMGYRAN-----
Aipt_ZCD3      MNGYRKTAYRTYILWKYG--KLGRGNRKVVPACVVRAIRRAYPSEDNVYMGFRQS-----
Amfe_ZCD       VNSYRKAAYRQYILWKYG--KLGKGNRRVCPSCVVRLVRQTYPSPDGEYMGFRRH-----
Crgi_ZCD       QSTFRNQAYRNFVLWQHS--TLGAGRRVPVPSCVCVAIRRRFPQANGQYMGYHSANSDSE
Logi_ZCD       NKTFRNQAYRNFILWQHG--KMGSGKRKPLPACTYVAIRATFPSN--EYSGYHSAFSDSE
Ixsc_ZCD       HERHRYTAYQQFTWWVDH--KPRHGNRVPLPSCAVERIRREFPSTNGSYVDQKK------
Mype_ZCD       NSSWRFICYTQYTHWINSWSSFGKGVRVVIPACVVKTIREKYPEVNGVYVGFKNGSKLPN
Haco_ZCD       NRCFRYCAYRSFVIWCYG—RLGILRGFELPACVRGAIMKEFPSDSGSY
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