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| Supplementary Table 1:Clinical diagnosis of patients of KD, FC and HC. | | | | | | | | | | | | |
| **Sample** | **Age** | **Sex** | **IVIG**  **resistant** | **CRP**  **(mg/L)** | **ESR**  **(mm/h)** | **WBC**  **(109/L)** | **RBC**  **(1012/L)** | **HGB**  **(g/L)** | **PLT**  **(109/L)** | **ALT**  **(U/L)** | **GGT**  **(U/L)** | **Diagnosis** |
| Kawasaki Disease | | | | | | | | | | | | |
| KD01 | 9m | M | + | 107 | 21 | 9.64 | 3.81 | 96 | 75 | 17 | 11 | Kawasaki disease |
| KD02 | 4m | M | - | <8 | 24 | 10.63 | 3.53 | 91 | 722 | 22 | 23 | Kawasaki disease |
| KD03 | 10m | M | - | 35 | 27 | 15.26 | 4.39 | 96 | 733 | 19 | 16 | Kawasaki disease |
| KD04 | 3y3m | F | + | >160 | 93 | 12.31 | 3.92 | 108 | 205 | 13 | 12 | Kawasaki disease |
| KD05 | 7y1m | F | + | 97 | 35 | 17.30 | 3.37 | 95 | 87 | 12 | 41 | Kawasaki disease |
| KD06 | 1y10m | M | - | 151 | 41 | 10.58 | 3.62 | 88 | 149 | 10 | 25 | Kawasaki disease |
| KD07 | 6y | F | + | 111 | 67 | 25.75 | 4.42 | 118 | 253 | 37 | 135 | Kawasaki disease |
| KD08 | 2y8m | F | + | 129 | 120 | 15.66 | 3.59 | 101 | 296 | 10 | 9 | Kawasaki disease |
| KD09 | 2y3m | F | - | 73 | 105 | 9.27 | 3.60 | 99 | 387 | 10 | 17 | Kawasaki disease |
| KD10 | 6y8m | M | + | 144 | 66 | 18.38 | 3.78 | 105 | 304 | 105 | 117 | Kawasaki disease |
| KD11 | 11m | F | - | 87 | 42 | 13.86 | 3.67 | 91 | 601 | 33 | 76 | Kawasaki disease |
| KD12 | 1y | M | + | 37 | 59 | 10.93 | 3.73 | 98 | 129 | 371 | 222 | Kawasaki disease |
| KD13 | 4y7m | M | + | 102 | 76 | 19.15 | 4.12 | 109 | 427 | 245 | 187 | Kawasaki disease |
| KD14 | 9y9m | M | + | 160 | 99 | 11.94 | 4.37 | 120 | 312 | 13 | 13 | Kawasaki disease |
| KD15 | 1y1m | M | - | 31 | 29 | 13.58 | 3.56 | 94 | 208 | 22 | 20 | Kawasaki disease |
| KD16 | 3m | M | - | 39 | 29 | 6.38 | 3.75 | 101 | 349 | 21 | 23 | Kawasaki disease |
| KD17 | 5y | F | - | 124 | 42 | 7.03 | 3.35 | 93 | 278 | 22 | 15 | Kawasaki disease |
| KD18 | 8m | M | - | <8 | 75 | 7.08 | 3.97 | 107 | 563 | 12 | 15 | Kawasaki disease |
| KD19 | 1y5m | M | + | >160 | 39 | 8.24 | 4.00 | 97 | 338 | 223 | 144 | Kawasaki disease |
| KD20 | 1y9m | M | - | 20 | 64 | 5.81 | 4.16 | 116 | 305 | 20 | 17 | Kawasaki disease |
| KD21 | 11m | F | - | >160 | 79 | 11.98 | 3.34 | 88 | 211 | 8 | 13 | Kawasaki disease |
| KD22 | 2y9m | F | - | <8 | 73 | 8.07 | 4.47 | 124 | 388 | 18 | 162 | Kawasaki disease |
| KD23 | 1y9m | F | - | 45 | 66 | 9.03 | 3.71 | 97 | 315 | 12 | 28 | Kawasaki disease |
| KD24 | 1y1m | M | - | <8 | 51 | 8.34 | 4.42 | 116 | 299 | 18 | 12 | Kawasaki disease |
| KD25 | 1y5m | M | + | 92 | 70 | 10.78 | 4.21 | 102 | 236 | 71 | 198 | Kawasaki disease |
| KD26 | 2y3m | M | + | <8 | 65 | 6.42 | 4.69 | 124 | 521 | 218 | 338 | Kawasaki disease |
| KD27 | 11m | F | - | 19 | 49 | 16.84 | 4.23 | 106 | 360 | 14 | 11 | Kawasaki disease |
| Febrile Controls | | | | | | | | | | | | |
| FC01 | 1y4m | M | NA | <8 | 32 | 8.72 | 4.15 | 107 | 351 | 21 | 11 | Mycoplasma infection |
| FC02 | 4y11m | M | NA | 136 | 32 | 9.72 | 3.94 | 114 | 191 | 63 | 73 | Mycoplasma infection and virus infection |
| FC03 | 2y3m | M | NA | 46 | 11 | 7.55 | 4.10 | 107 | 311 | 19 | 9 | Mycoplasma infection and virus infection |
| FC04 | 4y2m | F | NA | <8 | 17 | 8.37 | 3.52 | 111 | 326 | 15 | 11 | Mycoplasma infection |
| FC05 | 9m | F | NA | 8 | 18 | 16.43 | 4.11 | 97 | 378 | 9 | 11 | Virus infection |
| FC06 | 1y6m | M | NA | 10 | 14 | 7.59 | 4.55 | 118 | 120 | 23 | 10 | Bronchopneumonia |
| FC07 | 6y9m | F | NA | 39 | 47 | 5.16 | 4.21 | 128 | 260 | 20 | 14 | Mycoplasma infection |
| FC08 | 2y9m | M | NA | <8 | 6 | 14.42 | 3.95 | 111 | 310 | 29 | 9 | Bronchopneumonia |
| FC09 | 3y8m | F | NA | <8 | 34 | 6.58 | 4.58 | 124 | 319 | 12 | 10 | Bronchopneumonia |
| FC10 | 4y11m | F | NA | 24 | 48 | 13.69 | 3.50 | 105 | 506 | 11 | 18 | Mycoplasma infection |
| FC11 | 4y1m | M | NA | 15 | 40 | 5.02 | 3.83 | 103 | 227 | 9 | 10 | Mycoplasma infection |
| FC12 | 11m | M | NA | 79 | 11 | 10.13 | 4.54 | 115 | 168 | 62 | 29 | Virus infection |
| FC13 | 3m | M | NA | 33 | 12 | 11.26 | 2.92 | 83 | 437 | 19 | 50 | Acute pneumonia |
| FC14 | 6y5m | M | NA | 47 | 48 | 5.68 | 4.03 | 114 | 238 | 22 | 8 | Mycoplasma infection |
| FC15 | 6m | F | NA | <8 | 2 | 8.42 | 4.23 | 112 | 31 | 37 | 24 | Acute pneumonia |
| FC16 | 1y | M | NA | 12 | 8 | 12.83 | 4.68 | 119 | 282 | 16 | 9 | Bronchopneumonia |
| FC17 | 5y6m | M | NA | 80 | 91 | 22.86 | 4.43 | 113 | 666 | 6 | 12 | Mycoplasma infection |
| FC18 | 3y6m | M | NA | 56 | 40 | 4.72 | 3.79 | 107 | 242 | 9 | 8 | Bronchopneumonia, virus infection and bacterial infection |
| FC19 | 3y4m | F | NA | 20 | 43 | 12.30 | 3.87 | 114 | 431 | 20 | 13 | Mycoplasma infection |
| FC20 | 2y8m | F | NA | 73 | 16 | 8.17 | 3.54 | 98 | 167 | 10 | 8 | Virus infection |
| FC21 | 1y9m | M | NA | <8 | 22 | 9.05 | 4.49 | 122 | 382 | 12 | 9 | Virus infection |
| FC22 | 1y10m | F | NA | 86 | 101 | 18.49 | 3.73 | 103 | 233 | 12 | 9 | Virus infection |
| FC23 | 1y11m | F | NA | 21 | 39 | 9.81 | 4.69 | 132 | 237 | 22 | 13 | Bronchopneumonia, virus infection and bacterial infection |
| FC24 | 1y6m | M | NA | <8 | 5 | 8.95 | 3.88 | 101 | 300 | 12 | 12 | Bronchopneumonia, virus infection and bacterial infection |
| FC25 | 4y8m | M | NA | 77 | 37 | 9.03 | 4.62 | 124 | 353 | 41 | 18 | Mycoplasma infection |
| FC26 | 1y7m | M | NA | <8 | 40 | 8.90 | 4.75 | 122 | 283 | 16 | 9 | Bronchopneumonia |
| FC27 | 11m | M | NA | 98 | 57 | 14.12 | 3.90 | 98 | 183 | 15 | 41 | Acute pneumonia |
| Normal Controls | | | | | | | | | | | | |
| HC01 | 1y10m | M |  |  |  |  |  |  |  |  |  |  |
| HC02 | 2y1m | M |  |  |  |  |  |  |  |  |  |  |
| HC03 | 2y1m | M |  |  |  |  |  |  |  |  |  |  |
| HC04 | 1y5m | F |  |  |  |  |  |  |  |  |  |  |
| HC05 | 4y | M |  |  |  |  |  |  |  |  |  |  |
| HC06 | 8y6m | M |  |  |  |  |  |  |  |  |  |  |
| HC07 | 6y5m | F |  |  |  |  |  |  |  |  |  |  |
| HC08 | 5y2m | M |  |  |  |  |  |  |  |  |  |  |
| HC09 | 2y4m | M |  |  |  |  |  |  |  |  |  |  |
| HC10 | 2y | M |  |  |  |  |  |  |  |  |  |  |
| HC11 | 4y3m | M |  |  |  |  |  |  |  |  |  |  |
| HC12 | 2y4m | M |  |  |  |  |  |  |  |  |  |  |
| HC13 | 2y9m | M |  |  |  |  |  |  |  |  |  |  |
| HC14 | 3y1m | M |  |  |  |  |  |  |  |  |  |  |
| HC15 | 2y11m | M |  |  |  |  |  |  |  |  |  |  |
| HC16 | 2y8m | M |  |  |  |  |  |  |  |  |  |  |
| HC17 | 1y7m | M |  |  |  |  |  |  |  |  |  |  |
| \*Participants were all Chinese.  \*NA=Not Available | | | | | | | | | | | | |

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| Supplementary Table 2:MS results of LDHA protein. | | | | |
|  | **Accession** | **Mass** | **Score** | **Description** |
| 1 | [sp|P00338|LDHA\_HUMAN](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit1) | 36950 | 331 | L-lactate dehydrogenase A chain OS=Homo sapiens GN=LDHA PE=1 SV=2 |
| 2 | [sp|Q5R1W9|LDHA\_PANTR](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit2) | 36924 | 311 | L-lactate dehydrogenase A chain OS=Pan troglodytes GN=LDHA PE=2 SV=3 |
| 3 | [sp|Q5R5F0|LDHA\_PONAB](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit3) | 36898 | 311 | L-lactate dehydrogenase A chain OS=Pongo abelii GN=LDHA PE=2 SV=3 |
| 4 | [sp|Q9BE24|LDHA\_MACFA](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit4) | 36893 | 201 | L-lactate dehydrogenase A chain OS=Macaca fascicularis GN=LDHA PE=2 SV=4 |
| 5 | [sp|Q9PW06|LDHA\_ALLMI](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit5) | 37045 | 132 | L-lactate dehydrogenase A chain OS=Alligator mississippiensis GN=LDHA PE=2 SV=3 |
| 6 | [sp|Q98SL2|LDHA\_CAICA](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit6) | 36983 | 132 | L-lactate dehydrogenase A chain OS=Caiman crocodilus apaporiensis GN=LDHA PE=2 SV=3 |
| 7 | [sp|P19858|LDHA\_BOVIN](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit7) | 36916 | 132 | L-lactate dehydrogenase A chain OS=Bos taurus GN=LDHA PE=2 SV=2 |
| 8 | [sp|P13491|LDHA\_RABIT](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit8) | 36826 | 126 | L-lactate dehydrogenase A chain OS=Oryctolagus cuniculus GN=LDHA PE=1 SV=3 |
| 9 | [sp|Q98SL0|LDHA\_PELSJ](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit9) | 36881 | 125 | L-lactate dehydrogenase A chain OS=Pelodiscus sinensis japonicus GN=LDHA PE=2 SV=3 |
| 10 | [sp|P04642|LDHA\_RAT](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit10) | 36712 | 122 | L-lactate dehydrogenase A chain OS=Rattus norvegicus GN=Ldha PE=1 SV=1 |
| 11 | [sp|A0A1F3|LDHA\_BOSMU](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit11) | 36947 | 116 | L-lactate dehydrogenase A chain OS=Bos mutus grunniens GN=LDHA PE=2 SV=3 |
| 12 | [sp|Q9W7L5|LDHA\_SCEUN](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit12) | 36889 | 115 | L-lactate dehydrogenase A chain OS=Sceloporus undulatus GN=LDHA PE=2 SV=3 |
| 13 | [sp|Q9PT43|LDHA\_TRASC](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit13) | 36903 | 108 | L-lactate dehydrogenase A chain OS=Trachemys scripta GN=LDHA PE=2 SV=3 |
| 14 | [sp|Q9W7L3|LDHA\_PYTRG](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit14) | 37022 | 107 | L-lactate dehydrogenase A chain OS=Python regius GN=LDHA PE=2 SV=3 |
| 15 | [sp|P06151|LDHA\_MOUSE](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit15) | 36817 | 105 | L-lactate dehydrogenase A chain OS=Mus musculus GN=Ldha PE=1 SV=3 |
| 16 | [sp|P00342|LDHC\_MOUSE](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit16) | 36231 | 90 | L-lactate dehydrogenase C chain OS=Mus musculus GN=Ldhc PE=1 SV=2 |
| 17 | [sp|P79912|LDHA\_SCEWO](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit17) | 36804 | 87 | L-lactate dehydrogenase A chain OS=Sceloporus woodi GN=LDHA PE=2 SV=4 |
| 18 | [sp|Q1GUN0|PYRB\_SPHAL](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit18) | 37746 | 76 | Aspartate carbamoyltransferase OS=Sphingopyxis alaskensis (strain DSM 13593 / LMG 18877 / RB2256) G |
| 19 | [sp|P19629|LDHC\_RAT](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit19) | 36063 | 76 | L-lactate dehydrogenase C chain OS=Rattus norvegicus GN=Ldhc PE=1 SV=3 |
| 20 | [sp|P00339|LDHA\_PIG](http://gps/mascot/cgi/master_results.pl?file=../data/20131205/F007920.dat&REPTYPE=protein#Hit20) | 36880 | 74 | L-lactate dehydrogenase A chain OS=Sus scrofa GN=LDHA PE=1 SV=3 |
| \*Ions score is defined as 10\*Log (P), where P represents the probability whether the observed result matches a random event. If individual ions score > 56, homology or identity is considered. Protein score is a tool as a non-probabilistic basis of ranking proteins. | | | | |