

Dysferlin Antibodies

****Please see below (page 4) for a graphical representation of all the known dysferlin peptide sequences used to generate antibodies**

NCL-Hamlet

Type: mouse monoclonal IgG1
Synthetic peptide: amino acids 1999-2016 (exon 53)
Reactive species: human, mouse, rat, rabbit, hamster, pig, dog
Non-reactive species: chicken
Information: <http://www.novocastra.co.uk/data/md/hamlet.pdf>
Availability: Novocastra Laboratories Ltd
<http://www.novocastra.co.uk>
Newcastle upon Tyne, NE12 8EW
UK
Phone: +44 (0) 191 215 0567
Fax: +44 (0) 191 215 1152

Local distributors (US, Europe, India, etc):
<http://www.novocastra.co.uk/dist.htm>

NCL-Hamlet-2

Type: mouse monoclonal IgG2b, kappa
Synthetic peptide: amino acids 349-366 (exons 11-12)
Reactive species: human, rabbit, hamster, pig, dog
Non-reactive species: mouse, rat, chicken
Information: <http://www.novocastra.co.uk/data/md/hamlet-2.pdf>
Availability: Novocastra Laboratories Ltd
<http://www.novocastra.co.uk>
Newcastle upon Tyne, NE12 8EW
UK
Phone: +44 (0) 191 215 0567
Fax: +44 (0) 191 215 1152

Local distributors (US, Europe, India, etc):
<http://www.novocastra.co.uk/dist.htm>

ab15108

Type: rabbit polyclonal IgG
Synthetic peptide: unavailable
Reactive species: human, mouse (predicted)
Information: <http://www.abcam.com/index.html?datasheet=15108>
Availability: Abcam, Inc
<http://www.abcam.com>
Cambridge, MA 02139
U.S.A.
Phone: 888-77-ABCAM or 617-225-2272
Fax: 617-507-5831
Email: us-orders@abcam.com

Local distributors (Europe, India, etc):
<http://www.abcam.com/index.html?pageconfig=distributors>

C-19

Type: goat polyclonal IgG
Synthetic peptide: internal region of dysferlin
Reactive species: human, mouse, rat
Information: http://www.scbt.com/datasheets_list/sc-16635.pdf
Availability: Santa Cruz Biotechnology, Inc
<http://www.scbt.com>
Santa Cruz, CA 95060
U.S.A.
Phone: 800-457-3801 or 831-457-3800
Fax: 831-457-3801
Email: scbt@scbt.com

E-20

Type: goat polyclonal IgG
Synthetic peptide: internal region of dysferlin
Reactive species: human, mouse, rat
Information: http://www.scbt.com/datasheets_list/sc-16634.pdf
Availability: Santa Cruz Biotechnology, Inc
<http://www.scbt.com>
Santa Cruz, CA 95060
U.S.A.
Phone: 800-457-3801 or 831-457-3800
Fax: 831-457-3801
Email: scbt@scbt.com

SmaI

Type: rabbit polyclonal
Synthetic peptide: XmnI fragment: amino acids 623-865 (exons 20-25)
Reactive species: human
Information: Matsuda C, et al. 1999. *Neurology* 53:1119-1122

SalI

Type: rabbit polyclonal
Synthetic peptide: SalI fragment: amino acids 1666-1788 (exons 45-48)
Reactive species: human
Information: Matsuda C, et al. 1999. *Neurology* 53:1119-1122

BamHI

Type: rabbit polyclonal
Synthetic peptide: BstYI/BamHI fragment: amino acids 254-405 (exons 7-13)
Reactive species: human
Information: Matsuda C, et al. 1999. *Neurology* 53:1119-1122

HM38

Type: rabbit polyclonal
Synthetic peptide: amino acids 2071-2080 (exon 55)
Reactive species: mouse
Information: Ho M, et al. 2004. *Human Molecular Genetics* 13(18):1999-2010

F4

Type: llama heavy-chain antibody (HCAb) fragment
Synthetic peptide: amino acids 2-245
Reactive species: human
Information: Huang Y, et al. 2005. *European J of Human Genetics* 13:721-730

H7

Type: llama heavy-chain antibody (HCAb) fragment
Synthetic peptide: amino acids 1666-1788
Reactive species: human
Information: Huang Y, et al. 2005. *European J of Human Genetics* 13:721-730

Dysferlin protein sequence (accession number NM_003494) showing the positions of peptide fragments used to generate anti-DYSF antibodies.

Each antibody name is shown above the sequence of the peptide fragment that was used for immunization.

Exon boundaries are shown underneath the sequence: for example, 1|2 marks the boundary between exons 1 and 2.

Legend:

Monoclonal Ab or HCAb

Polyclonal Ab

Overlapping Abs

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MLRVFILYAE NVHTPDTDIS DAYCSAVFAG VKKRTKVIKN SVNPVWNEGF EWDLKGIPLD    60
                        1|2                        2|3

QGSELHVVVK DHETMGRNRF LGEAKVPLRE VLATPSLSAS FNAPLLDTKK QPTGASLVLQ    120
                        3|4                        4|5

                        F4
VSYTPLPGAV PLFPPPTPLE PSPTLPDL DV VADTGGEEDT EDQGLTGDEA EPFLDQSGGP    180
                        5|6

GAPTTPRKLP SRPPPHYPGI KRKRSAPTSR KLLSDKPQDF QIRVQVIEGR QLPGVNIKPV    240
                        6|7

VKVTAAGQTK RTRIHKGNP LFNETLFFNL FDSPGELFDE PIFITVVDSE SLRTDALLGE    300
                        7|8                        8|9

                        NCL-Hamlet-2
                        EA PLERKDPSD
FRMDVGTIYR EPRHAYLRKW LLLSDPDDFS AGARGYLKTS LCVLGPGEA PLERKDPSD    360
9|10      10|11                        11|12
      BamHI

KEDIES
KEDIESNLLR PTGVALRG AH FCLKVFRAED LPQMDDAVMD NVKQIFGFES NKKNLVDPFV    420
                        12|13

EVSFAGKMLC SKILEKTANP QWNQNITLPA MFPSMCEKMR IRIIDWDRLT HNDIVATTYL    480
      13|14                        14|15      15|16

SMKISAPGG EIEEEPAGAV KPSKASDLDD YLGFLPTFGP CYINLYGSPR EFTGFDPDPT    540
      16|17      17|18

ELNTGKGEGV AYRGRLLLSL ETKLVEHSEQ KVEDLPADDI LRVEKYLR RR KYSLF AAFYS    600
      18|19                        19|20
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ATMLQDVDDA IQFEVSIGNY GN**KFDMTCLP LASTTQYSRA VFDGCHYYL PWGNVKPVVV** 660
20|21

LSSYWEDISH RIETQNLG IADRLEAGLE QVHLALKAQC STEDVDSLVA QLTDELIAGC 720
21|22 22

SmaI
SQPLGDIHET PSATHLDQYL YQLRTHHLSQ ITEAALALKL GHSELPAALE QAEDWLLRLR 780
|23

ALAEEPQNSL PDIVIWMLQG DKRVAYQRPV AHQVLFSRRG ANYCGKNCCK LQTIFLKYPM 840
23|24 24|25

EKVPGARMPV QIRVKLWFGL SVDEKEEFNQF AEGKLSVFAE TYENETKLAL VGNWGTIGLT 900
25|26

YPKFSDVTGK IKLPKDSFRP SAGWTWAGDW FVCPEKTLH DMDAGHLSFV EEVFENQTRL 960
26|27

PGGQWIYMSD NYTDVNGEKV LPKDDIECPL GWKWEDEEWS TDLNRAVDEQ GWEYSITIPP 1020
27|28 28|29

ERKPKHWVPA EKMYITHRRR RWVRLRRRDL SQMEALKRHR QAEAELEGWE YASLFGWKFH 1080
29|30

LEYRKTDAGR RRRWRRRMEP LEKTGPAAVF ALEGALGGVM DDKSEDSMSV STLSFGVNR 1140
30|31

TISCIFYGN RYHLRCYMYQ ARDLAAMDKD **S**SDPYAIVS FLHQSQKTVV VKNTLNPTWD 1200
31|32 32|33

QTLIFYEIEI FGEPATVAEQ PPSIVVELYD HDTYGADEFM GRCICQPSLE RMPRLAWFPL 1260
33|34

TRGSQPSGEL LASFELIQRE KPAIHHPGF EVQETSRILD ESEDIDLPP PPQREANIYM 1320
34|35 35|36 36|37

VPQNIKPALQ RTAIEILAWG LRNMKSYQLA NISSPSLVVE CGGQTVQSCV IRNLRKNPNF 1380
37|38

DICTLFMEVM LPREELYCPP ITVKVIDNRQ FGRRPVVGQC TIRSLESFLC DPYSAESPSP 1440
38|39

QGGPDDVSLI SPGEDVLIDI DDKEPLIPIQ EEEFIDWWSK FFASIGEREK CGSYLEKDFD 1500
39|40 40|41

TLKVYDTQLE NVEAFEGLSD FCNTFKLYRG KTQEETEDPS VIGEFKGLFK IYPLPEDPAI 1560
41|42 42|43

PMPPRQFHQL AAQGPQECLV RIYIVRAFGL QPKDPNGKCD PYIKISIGKK SVSDQDNYIP 1620
43|44

CTLEPVFGKM FELTCTLPLE KDLKITLYDY DLLSKDEKIG ETVVDLENRL LSKFGARCGL 1680
44|45

Sali / H7
PQTYCVSGPN QWRDQLRPSQ LLHLFCQQHR VKAPVYRTDR VMFQDKEYSI EEIEAGRIPN 1740
45|46 46|47

PHLGPVEERL ALHVLQQOGL VPEHVESRPL YSPLQPDIEQ GKLQMWVDLF PKALGRPGPP 1800
47|48

FNITPRRARR FFLRCIIWNT RDVILDDL SL TGEKMSDIYV KGWMIGFEEH KQKTDVHYRS 1860
48|49 49|50

LGEGGNFNWR FIFPFDYLP A EQVCTIAKKD AFWRLDKTES KIPARVVFQI WDNDKFSFDD 1920
50|51

FLGSLQLDLN RMPKPAKTAK KCSLDQLDDA FHPEWVFSLF EQKTVKGWWP CVAEEGEKKI 1980
51|52

NCL-Hamlet
LAGKLEMTLE IVAESEHEER PAGQGRDEPN MNPKLEDP RR PDTSFLWFTS PYKTMKFILW 2040
52|53 53|54

HM38
RRFRWAILF IILFILLFL AIFIYAFPNY AAMKLVKPF S
54|55