

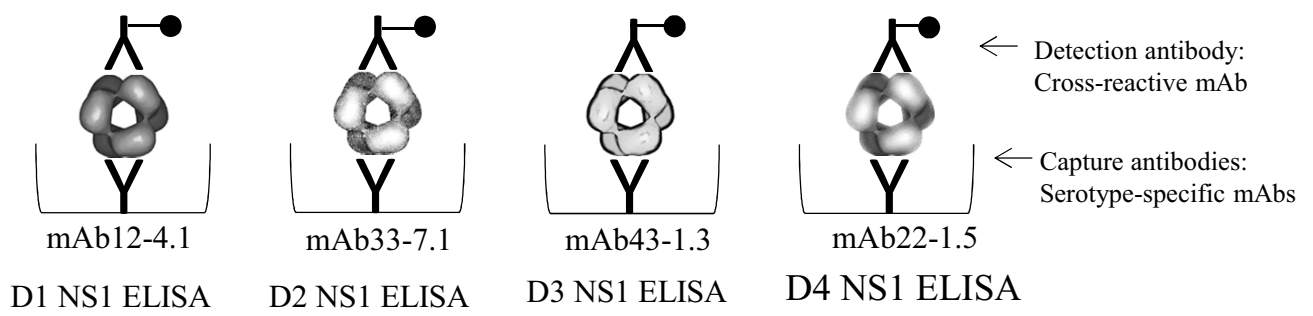


Fig. 1A

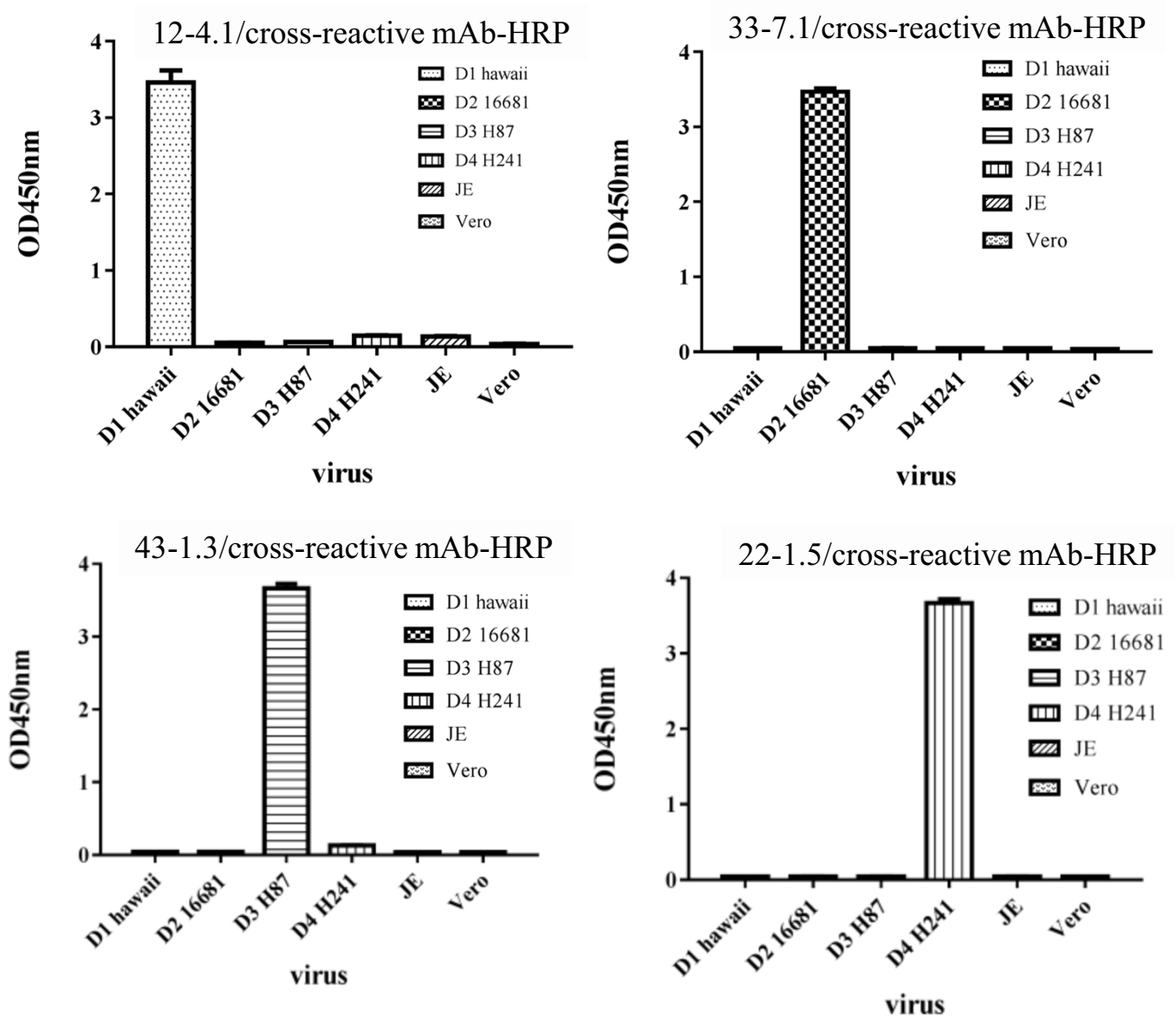


Fig. 1B

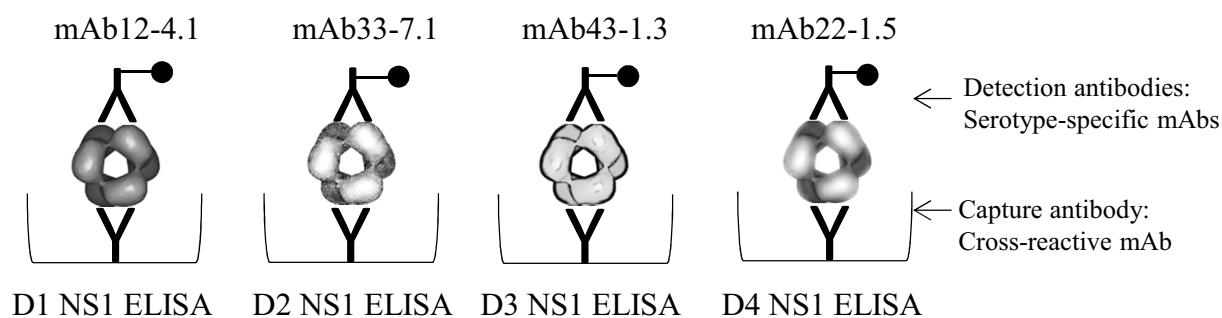


Fig. 2A

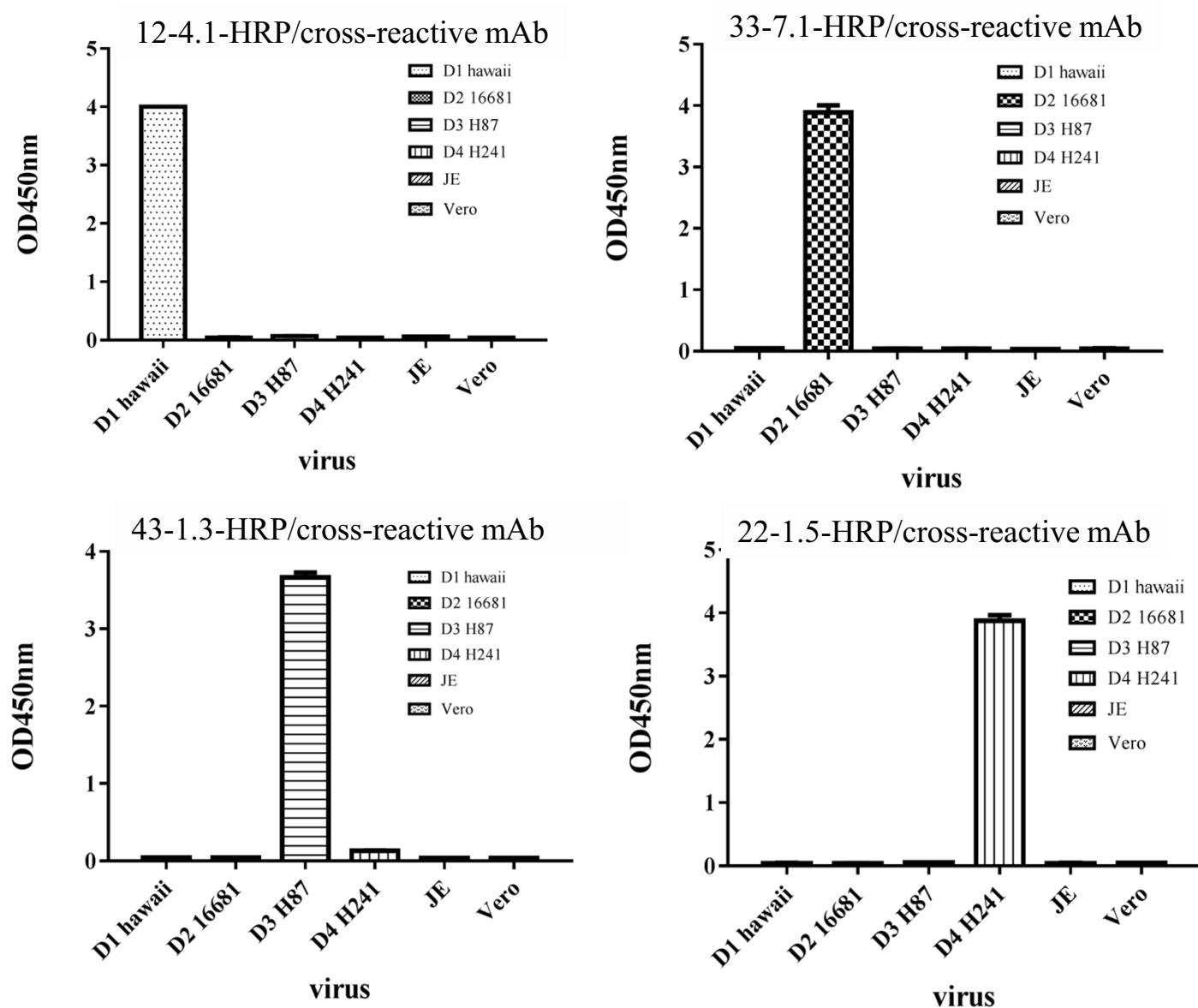


Fig. 2B

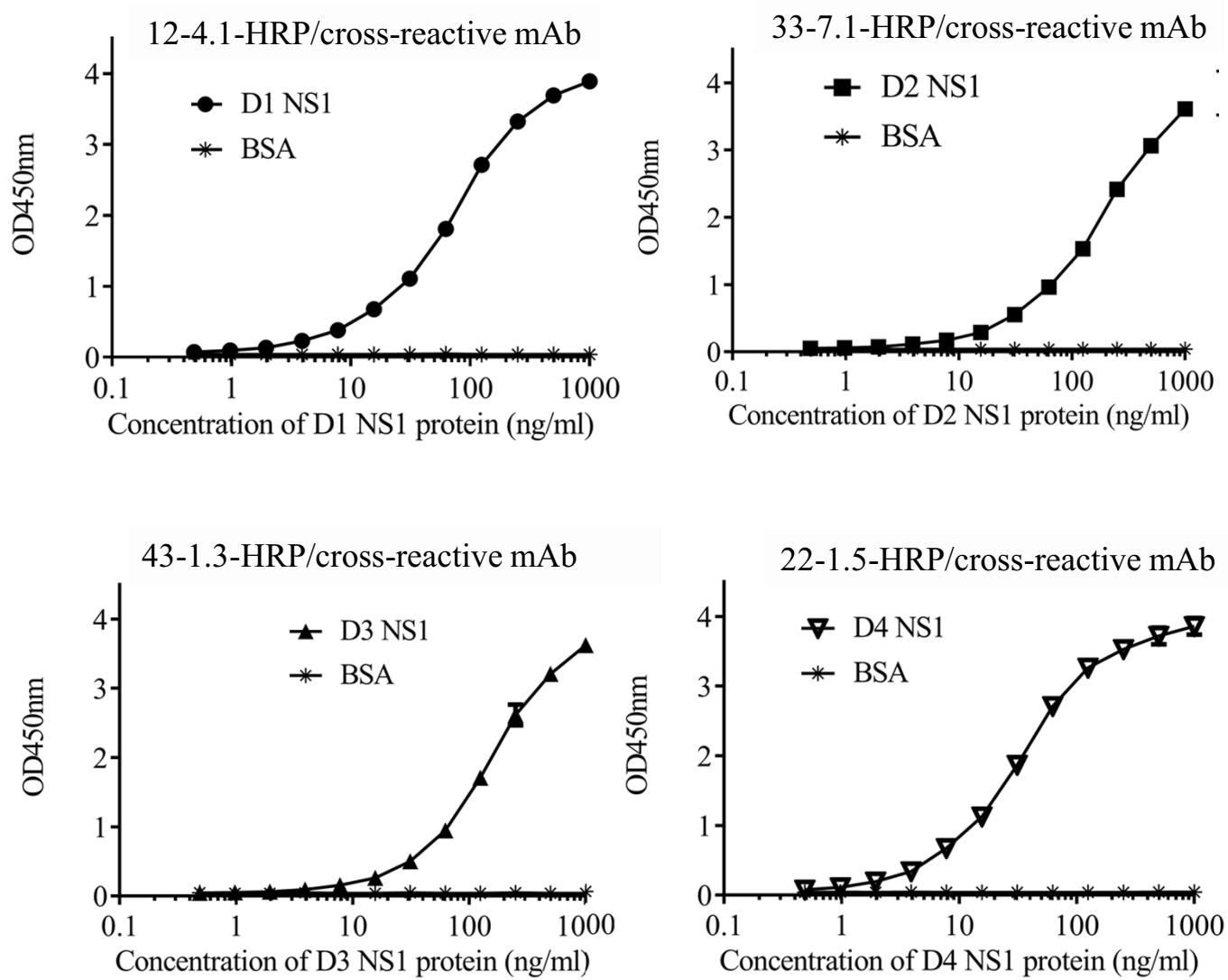


Fig. 3

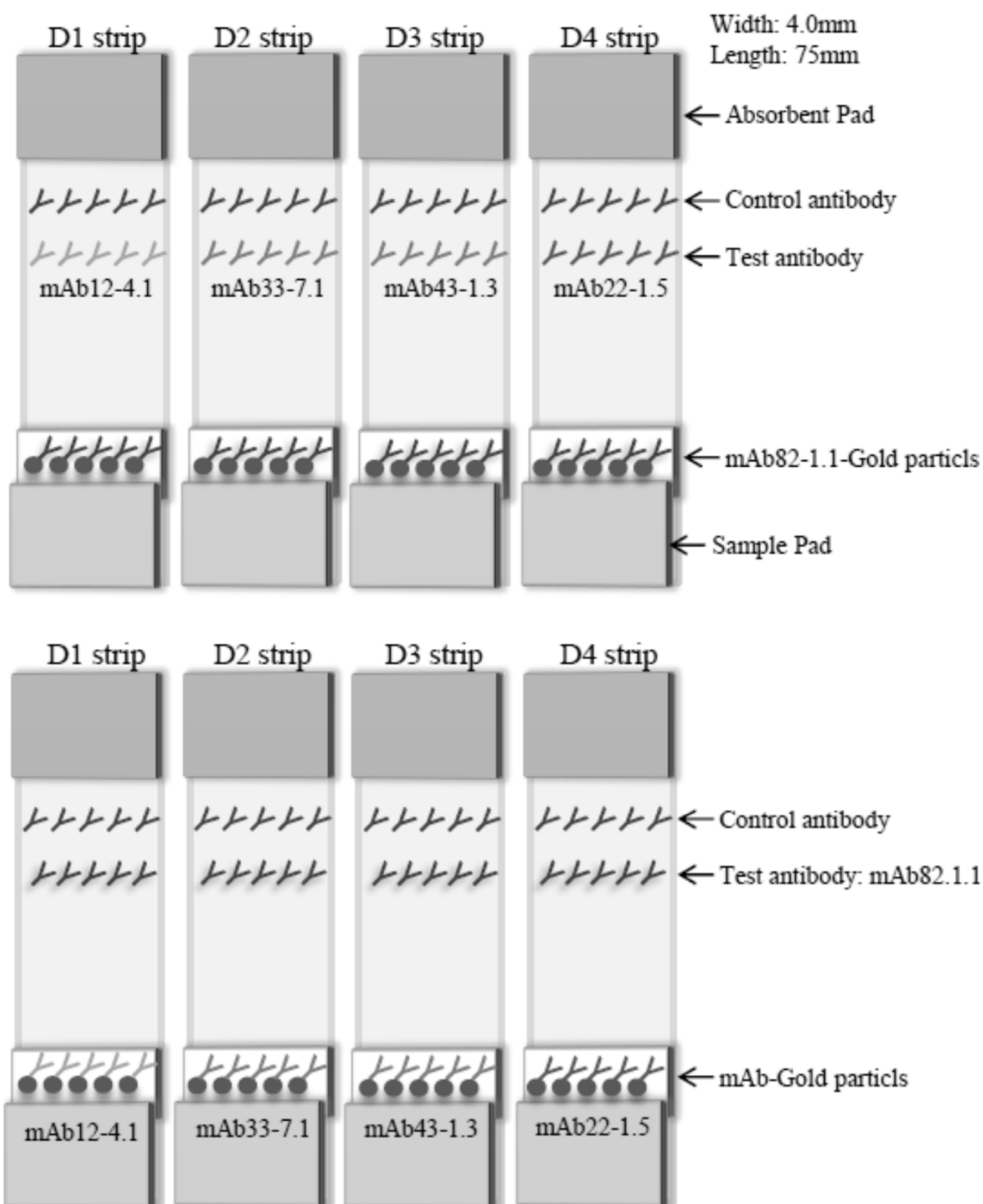


Fig. 4

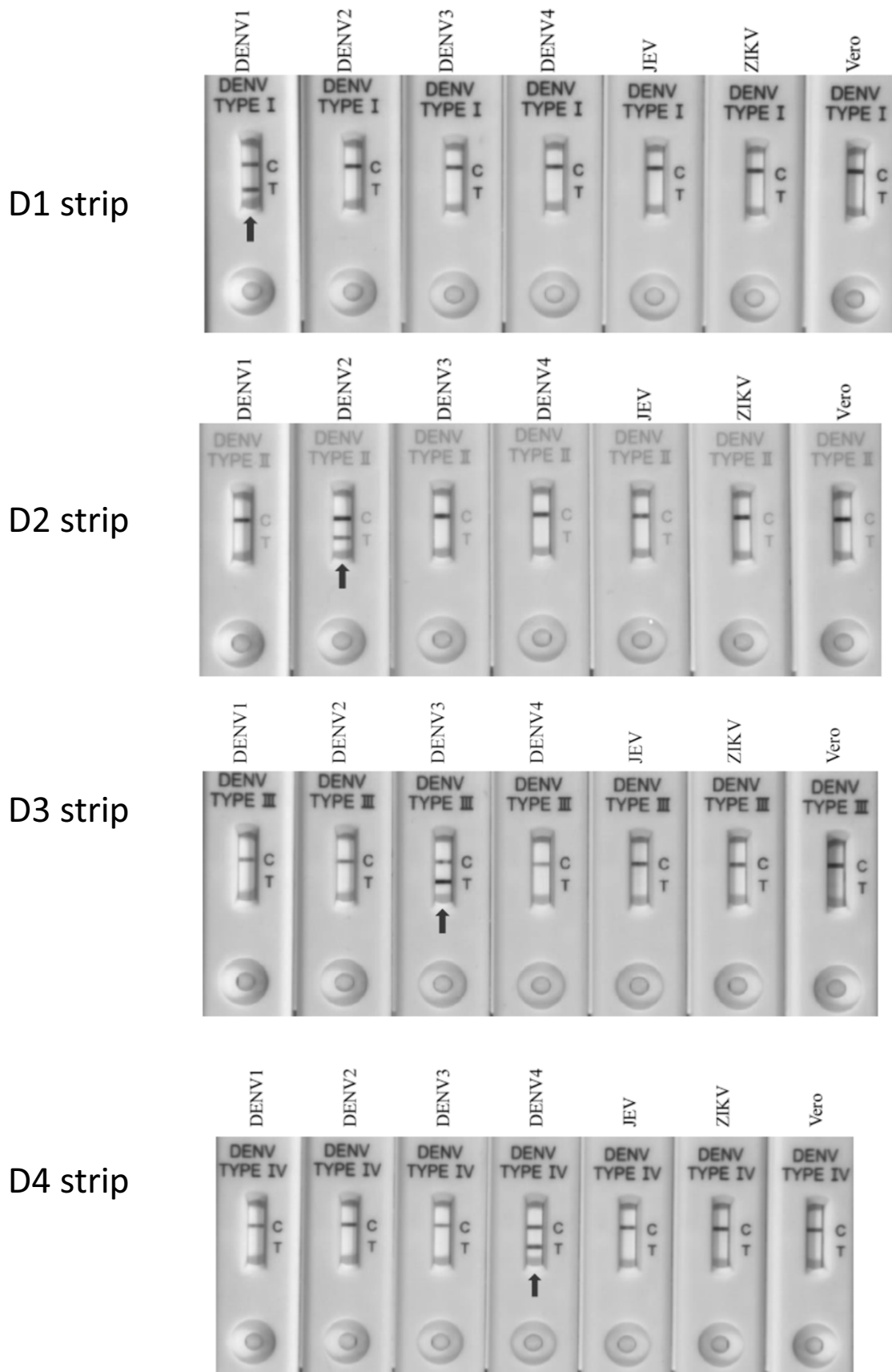


Fig. 5

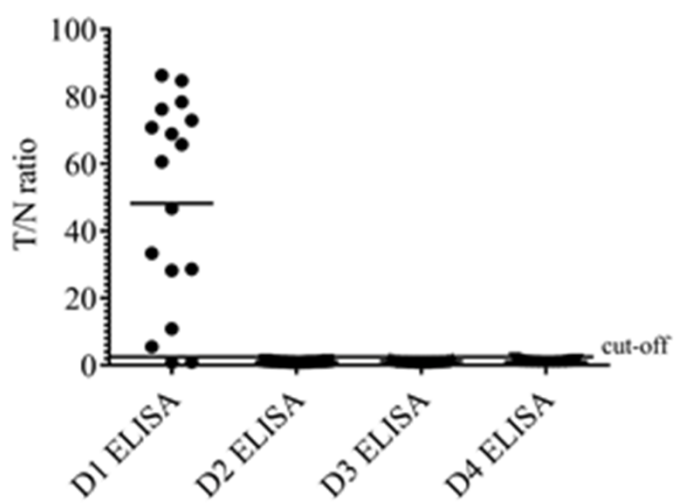


Fig. 6A

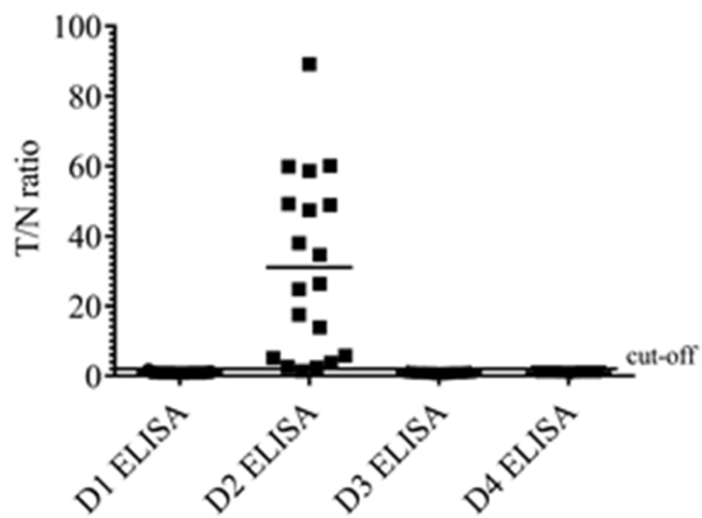


Fig. 6B

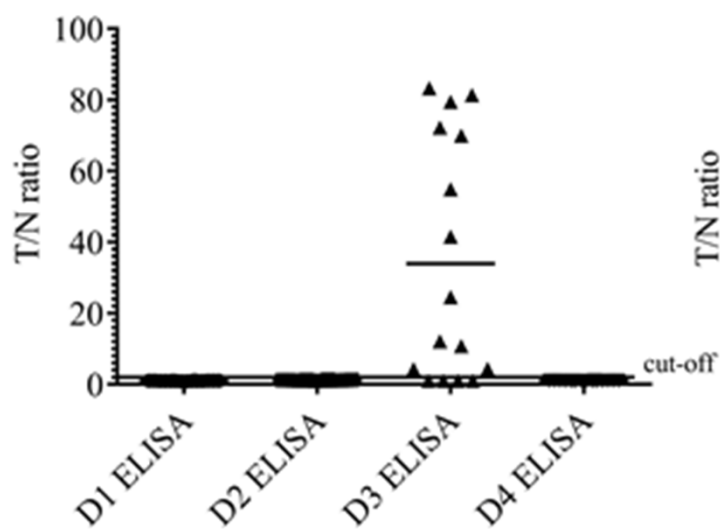


Fig. 6C

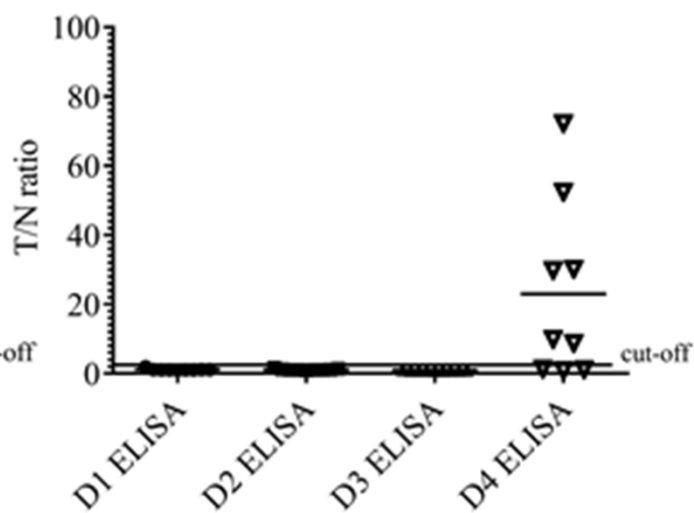


Fig. 6D

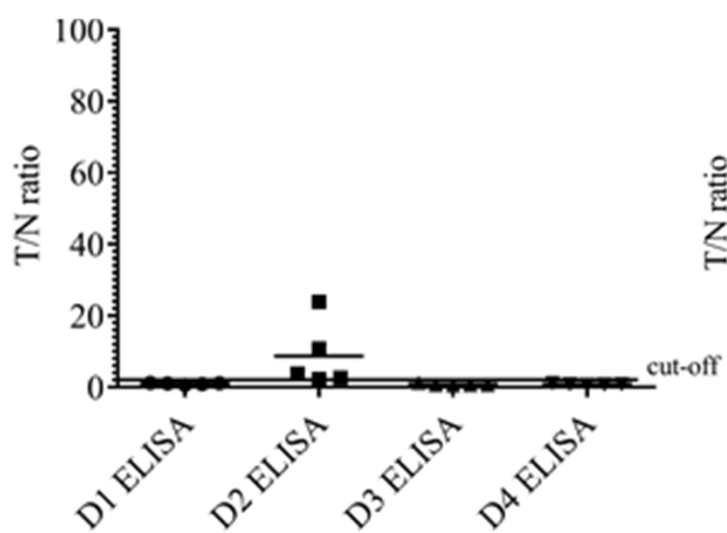


Fig. 6E

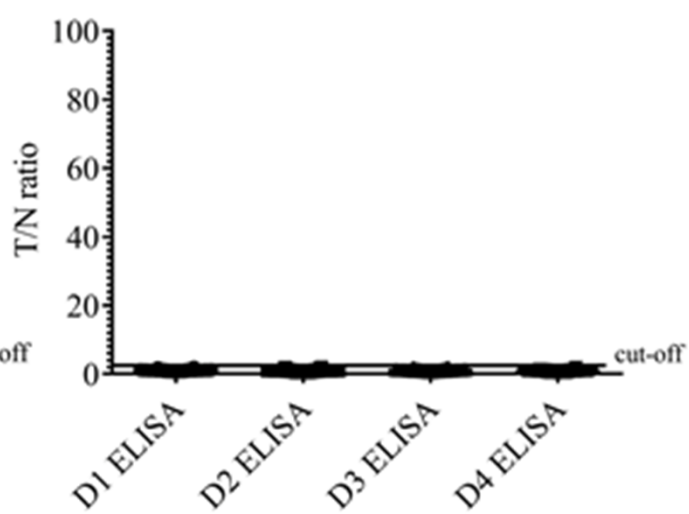


Fig. 6F

Heavy chain			
mAb	CDR1	CDR2	CDR3
1 st Ab (12-4.1)	GYTFTSYWIIH (SEQ ID NO: 2)	YITPNTGYNENSQKFRG (SEQ ID NO: 4)	RTYEGYLDV (SEQ ID NO: 6)
2 nd Ab (33-7.1)	GYTFTSYWMH (SEQ ID NO: 16)	YINPNTGFTEYSQKFKD (SEQ ID NO: 18)	ENYRYDGAMDY (SEQ ID NO: 20)
3 nd Ab (43-1.3)	GYSFSNYWMH (SEQ ID NO: 30)	VIDPSDSETRLNQKFKD (SEQ ID NO: 32)	SQFGLRFAY (SEQ ID NO: 34)
4 th Ab (22-1.5)	GYTFTDYNIIH (SEQ ID NO: 44)	YIYPDNGDTGYNQIFKN (SEQ ID NO: 46)	RVLLDS (SEQ ID NO: 48)
5 th Ab (82-1.1)	GFTFSNYDMS (SEQ ID NO: 58)	AINSNGGSTYYPDSVKG (SEQ ID NO: 60)	PNGYGAMDY (SEQ ID NO: 62)
Light chain			
mAb	CDR1	CDR2	CDR3
1 st Ab (12-4.1)	RSSQNLVHNNGNTYLE (SEQ ID NO: 9)	KVSNRLS (SEQ ID NO: 11)	FQASHVPRT (SEQ ID NO: 13)
2 nd Ab (33-7.1)	SVSSSVSSSNLH (SEQ ID NO: 23)	GTSTLAS (SEQ ID NO: 25)	QQWSSYPLT (SEQ ID NO: 27)
3 nd Ab (43-1.3)	QSSQSLFNSGTQKNYLT (SEQ ID NO: 37)	WASTRDS (SEQ ID NO: 39)	QNDYDSPYT (SEQ ID NO: 41)
4 th Ab (22-1.5)	SASQDINNFLN (SEQ ID NO: 51)	YTSSLQS (SEQ ID NO: 53)	QQYSKLPRT (SEQ ID NO: 55)
5 th Ab (82-1.1)	KSRQSLLDSDGKTYLN (SEQ ID NO: 65)	LVSKLDS (SEQ ID NO: 67)	LQATHFPWT (SEQ ID NO: 69)

Fig. 7

mAb12-4.1 heavy chain amino acid sequence (SEQ ID NO: 71):
EVKLQESGAELAKPGASVKMSCRASGYTFTSYWIHWVKERPGQGLEWIG
YITPNTGYNENSQKFRGKATLTADKSSNTAYMQLSSLTSEDSAVYFCVR
RTYEGYLDVWGAGTTVTVSS

mAb12-4.1 light chain amino acid sequence (SEQ ID NO: 72):
DIVMTQTPLSLPVSLGDQASISCRSSQNLVHNNGNTYLEWYLQKPGQSP
KLLIYKVSNRLSGVPDRFSGSGSGTDFTLNISRVEAEDLGIYYCFQASH
VPRTFGGG**TKLEIKR**

mAb33-7.1 heavy chain amino acid sequence (SEQ ID NO: 73):
EVQLQESGAELAKPGASVKMSCASGYTFTSYWMHWVKQRPGQVLEWIG
YINPNTGFTEYSQKFKD KATLTAVKSSSTAYIQLTSLTSDDSAVYYCAR
ENYRYDGAMDYWGQGTSTVTVSS

mAb33-7.1 light chain amino acid sequence (SEQ ID NO: 74):
DIVLTQSPALMAAFPGDRVITITCSVSSSVSSSNLHWYQQKSETSPKPWI
YGTSTLASGVPVRFSGSGSGTSYSLTSSMEAEADAATYYCQQWSSYPLT
FGAGTKLEIKR

mAb43-1.3 heavy chain amino acid sequence (SEQ ID NO: 75):
GELQESGPQVVRPGTSVKISCKASGYSFSNYWMHWVKQRPGQGLEWIGV
IDPSDSETRLNQKFKD KATLTVDKSSSTAYMQLSSPTSEDSAIYYCARS
QFGLRFAYWGQGLTVTVSA

mAb43-1.3 light chain amino acid sequence (SEQ ID NO: 76):
DIVMTQSPSSMTVTAGEKVTMSCQSSQSLFNSGTQKNYLTWYQQKPGQP
PKLLISWASTRDSGVPDRFTGSGSGTDFTLTINGVQAEDLAVYFCQNDY
DSPYTFGGG**TKLEIKR**

mAb22-1.5 heavy chain amino acid sequence (SEQ ID NO: 77):
EVQLQQSGPELVKPGASVKISCKASGYTFTDYNIHWVKQSPGKSLEWIG
YIYPDNGDTGYNQIFKNKATLTVDTSSSAAYMELRSLTSEDSAVYYCVR
RVLLDSWGQGTSTVTVSS

mAb22-1.5 light chain amino acid sequence (SEQ ID NO: 78):
DIQMTQTSSLSASLGDRVITISCSASQDINNFLNHWYQQKPDGTIKLLIY
YTSSLQSGVPSRFSFGSGSGTDYSLTISNLEPEDIATYYCQQYSKLPRTF
GGG**TKLEIKR**

mAb82-1.2 heavy chain amino acid sequence (SEQ ID NO: 79):
EVQLQQSGGGLVQPGGSLKLSCAASGFTFSNYDMSWIRQTPDKRLEMVA
AINSNGGSTIYPDSVKGRFTISRDKAKNTLYLQMSSLKSEDTAMYCAS
PNGYGAMDYWGQGTSTVTVSS

mAb82-1.2 light chain amino acid sequence (SEQ ID NO: 80):
DIVITQTPLTSLVTIGQPASISCKKSRQSLLDSDGKTYLNWLLQRPGES
KLLIYLVSKLDSGVPDRFTGSGSGTDFTLKISRVEAEDLGVYYCLQATH
FPWTFGGG**TKLEIKRA**

Fig. 8