

FIG. 1A

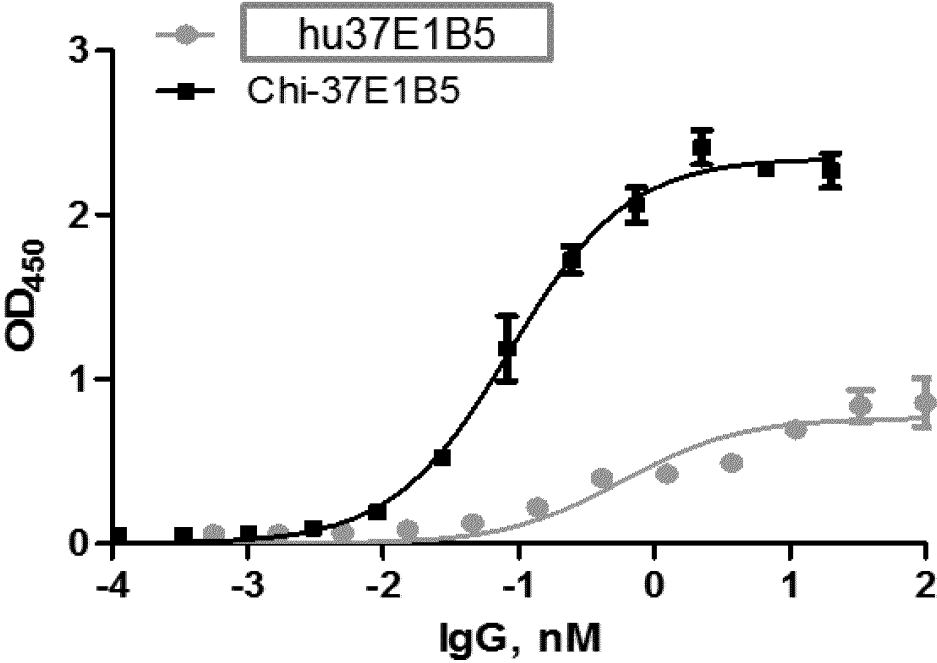
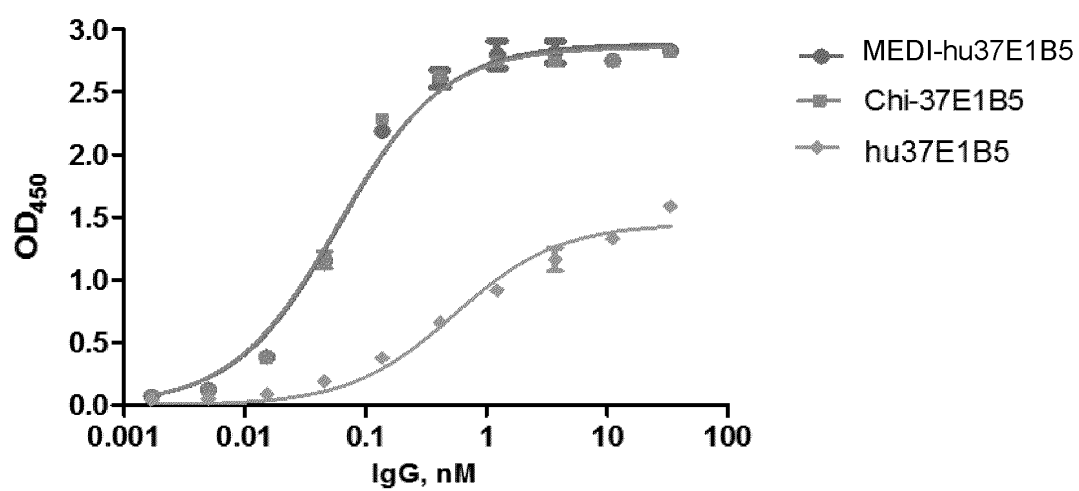


FIG. 1B

IgGs binding to $\alpha v \beta 8$ 

IgG	K _d (nM)
MEDI-hu37E1B5	0.7
Chi-37E1B5	0.5
*hu-37E1B5	~490

*Values obtained for this interaction are estimates.

FIG. 2A

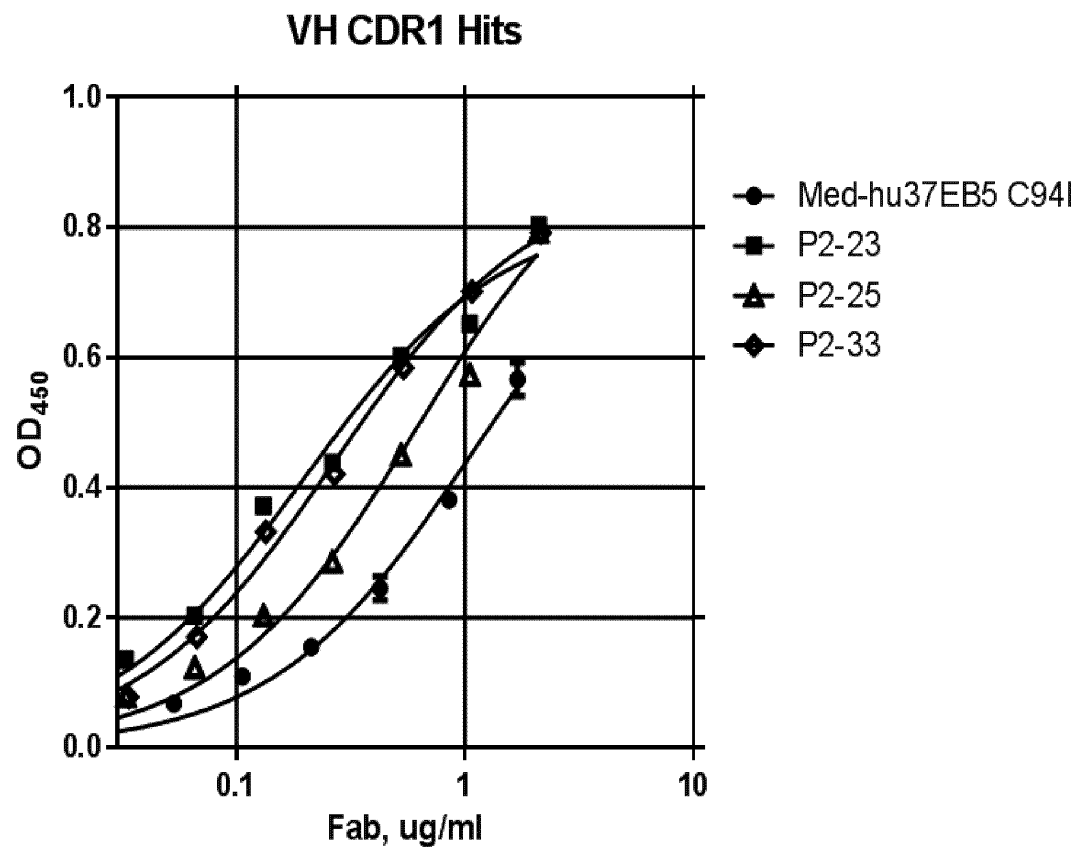


FIG. 2B

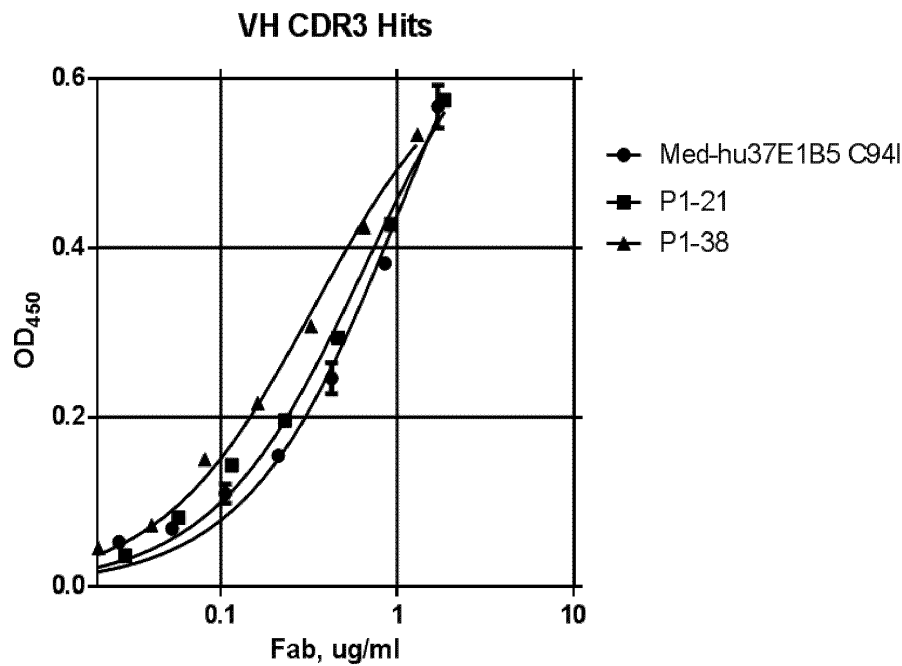


FIG. 2C

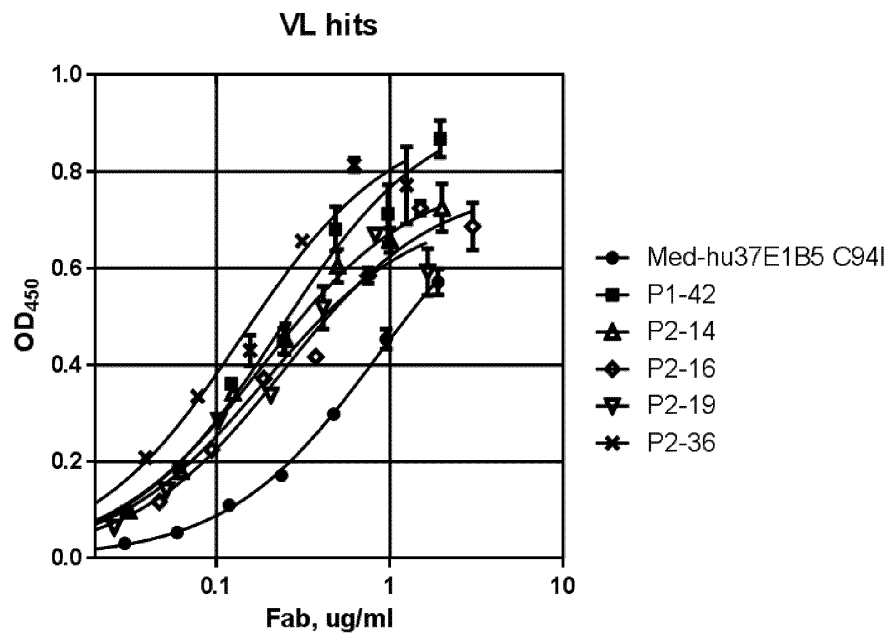


FIG. 2D

<u>αvβ8 VH CDR1 hits</u>				
P2-23	FW1	CDR1	FW2	CDR2 FW3 FW4
EVQLVESGGGLVQPGGSLRLSCAVSGGFVFSRYWY ^W VRQAPGKGLEWIGEINPDS ^S TINYTS ^{SL} KDRFTISRDNAKNSLYLQMN ^S LRAEDTAVYYCAI ^{LITTEDY} WGQGT ^{TT} VTYSS				
P2-33				SEQ ID NO: 26
EVQLVESGGGLVQPGGSLRLSCAVSGGFVFSRYW ^I SWVRQAPGKGLEWIGEINPDS ^S TINYTS ^{SL} KDRFTISRDNAKNSLYLQMN ^S LRAEDTAVYYCAI ^{LITTEDY} WGQGT ^{TT} VTYSS				
P2-25				SEQ ID NO: 27
EVQLVESGGGLVQPGGSLRLSCAVSGGFVFSR ^S WMS ^W VRQAPGKGLEWIGEINPDS ^S TINYTS ^{SL} KDRFTISRDNAKNSLYLQMN ^S LRAEDTAVYYCAI ^{LITTEDY} WGQGT ^{TT} VTYSS				
P2-28				SEQ ID NO: 28
<u>αvβ8 VH CDR3 hits</u>				
P1-21	FW1	CDR1	FW2	CDR2 FW3 CDR3 FW4
EVQLVESGGGLVQPGGSLRLSCAVSGGFVFSRYWMS ^W VRQAPGKGLEWIGEINPDS ^S TINYTS ^{SL} KDRFTISRDNAKNSLYLQMN ^S LRAEDTAVYYCAI ^{LITTEDY} WGQGT ^{TT} VTYSS				
P1-35				SEQ ID NO: 29
EVQLVESGGGLVQPGGSLRLSCAVSGGFVFSRYWMS ^W VRQAPGKGLEWIGEINPDS ^S TINYTS ^{SL} KDRFTISRDNAKNSLYLQMN ^S LRAEDTAVYYCAI ^{FIITTEDY} WGQGT ^{TT} VTYSS				
P1-36				SEQ ID NO: 30
<u>αvβ8 VL CDR1 hits</u>				
C941 VK	FW1	CDR1	FW2	CDR2 FW3 CDR3 FW4
DIQLTQSPSSLSASVGDRTVITCKASQDINSYLSWFQQKPGKAPKSLIYYANRLVDGVP ^S RFSGSGSGTDFTLTIS ^S LQPEDPATYYCLQYDEFF ^Y TFGGG ^T KKVEIK				
P1-42				SEQ ID NO: 31
DIQLTQSPSSLSASVGDRTVITCKASQDIN ^K YLSWFQQKPGKAPKSLIYYANRLVDGVP ^S RFSGSGSGTDFTLTIS ^S LQPEDPATYYCLQYDEFF ^Y TFGGG ^T KKVEIK				
P1-43				SEQ ID NO: 32
<u>αvβ8 VL CDR3 hits</u>				
P2-16	FW1	CDR1	FW2	CDR2 FW3 CDR3 FW4
DIQLTQSPSSLSASVGDRTVITCKASQDINSYLSWFQQKPGKAPKSLIYYANRLVDGVP ^S RFSGSGSGTDFTLTIS ^S LQPEDPATYYC ^G QYDEFF ^Y TFGGG ^T KKVEIK				
P2-19				SEQ ID NO: 33
DIQLTQSPSSLSASVGDRTVITCKASQDINSYLSWFQQKPGKAPKSLIYYANRLVDGVP ^S RFSGSGSGTDFTLTIS ^S LQPEDPATYYCLQYD ^V FF ^Y TFGGG ^T KKVEIK				
P2-36				SEQ ID NO: 34
DIQLTQSPSSLSASVGDRTVITCKASQDINSYLSWFQQKPGKAPKSLIYYANRLVDGVP ^S RFSGSGSGTDFTLTIS ^S LQPEDPATYYCLQYDE ^F Y ^T TFGGG ^T KKVEIK				
P2-14				SEQ ID NO: 35
DIQLTQSPSSLSASVGDRTVITCKASQDINSYLSWFQQKPGKAPKSLIYYANRLVDGVP ^S RFSGSGSGTDFTLTIS ^S LQPEDPATYYCLQADE ^F FF ^Y TFGGG ^T KKVEIK				
P2-36				SEQ ID NO: 36

FIG. 3A

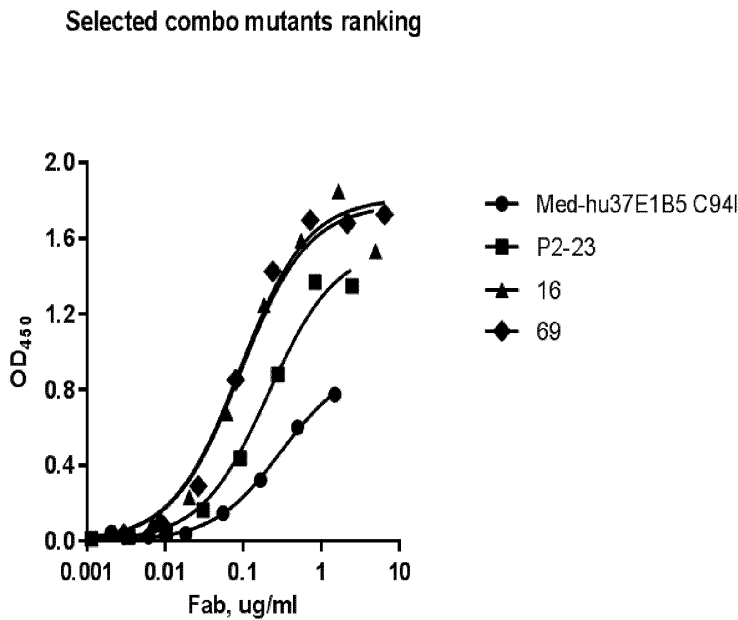


FIG. 3B

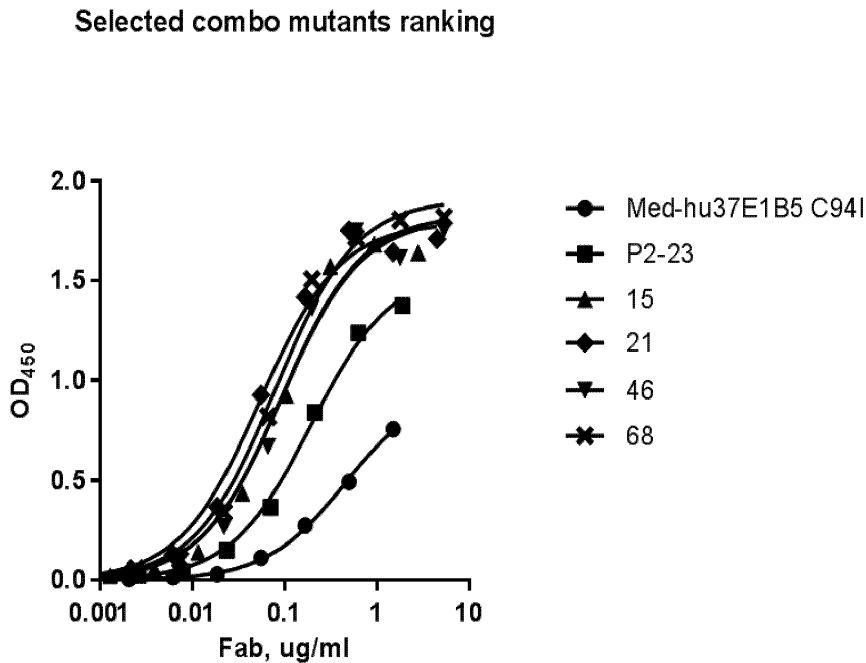


FIG. 4

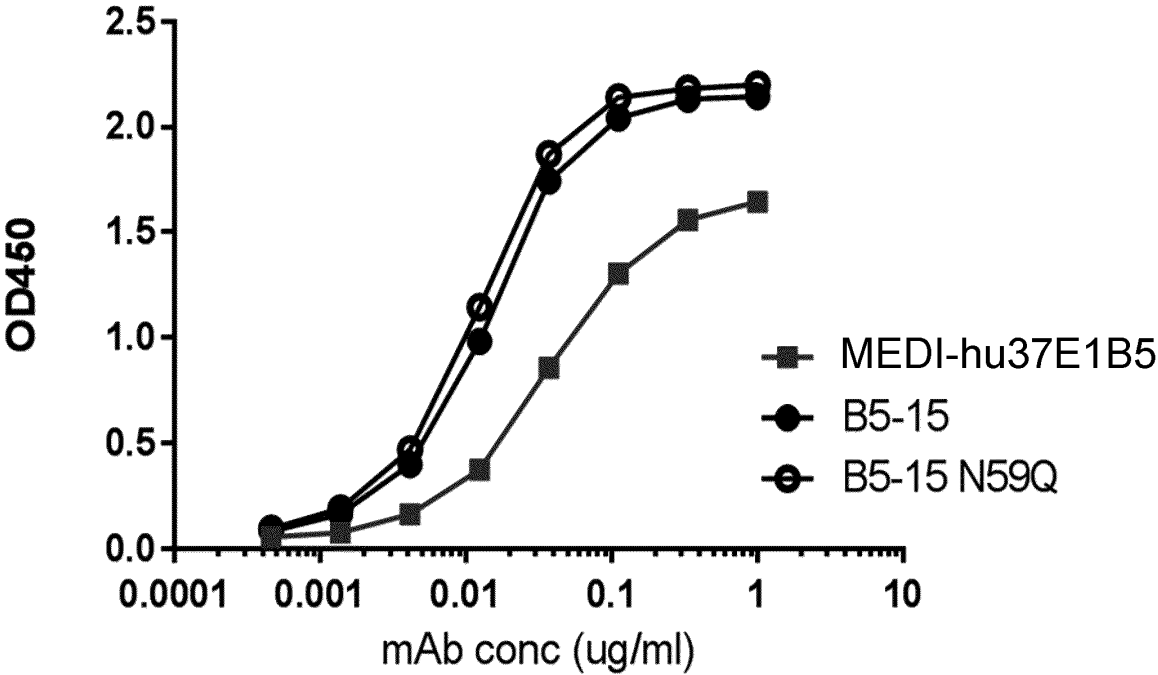
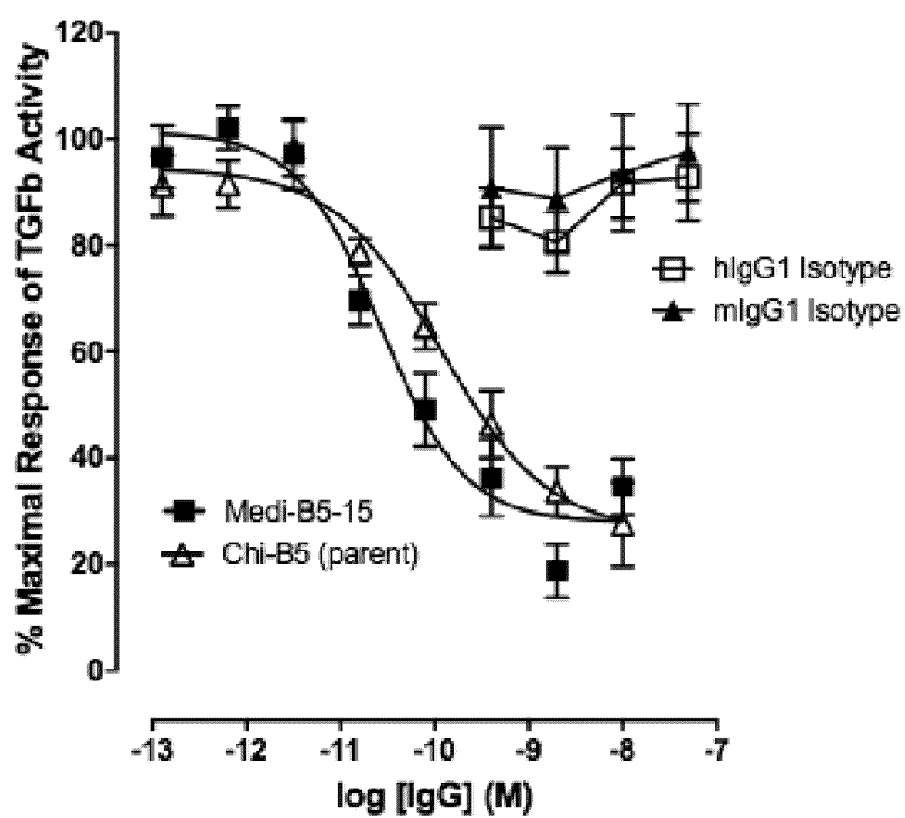


FIG. 5

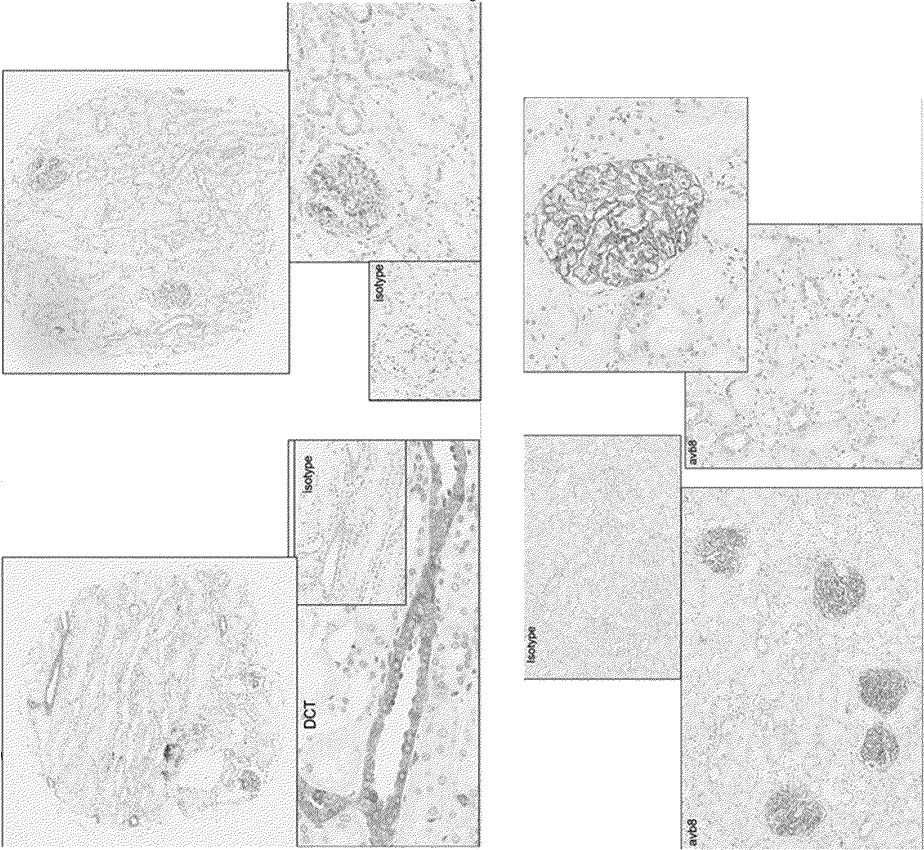


Anti- $\alpha v \beta 8$ antibody	K_d (pM)	IC_{50} (nM)
Chi-37E1B5	500	0.12
B5-15	166.3	0.03

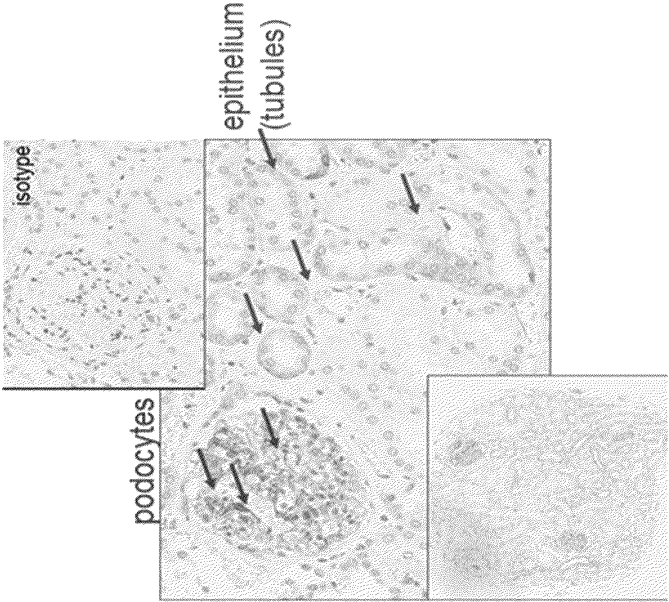
FIG. 6

VH alignment		HCDR1		HCDR2	
Chi-37E1B5	EVQLVESGGG	LVQPGGSLNL	SCAVSGFVPS	RYMMSWVRQA	PGKGLEWIGE INPDSTINY TSSLKDKFII SRD ~~NAKNTLY~~
hu37E1B5	EVQLVESGGG	LVQPGGSLRL	SCAVSGFVPS	RYMMSWVRQA	PGKGLEWIGE INPDSTINY TSSLKDKRFTI SRD ~~NAKNSLY~~
MEDI-hu37E1B5	EVQLVESGGG	LVQPGGSLRL	SCAVSGFVPS	RYMMSWVRQA	PGKGLEWIGE INPDSTINY TSSLKDKRFTI SRD ~~NAKNSLY~~
B5-15	EVQLVESGGG	LVQPGGSLRL	SCAVSGFVPS	<u>RSWISWVRQA</u>	PGKGLEWIGE INPDSTINY TSSLKDKRFTI SRD ~~NAKNSLY~~
HCDR3					
Chi-37E1B5	LQMNVKVRSED	TALYYCACLI	TTEDYWGQGT	SVTVSS	SEQ ID NO: 20
hu37E1B5	LQMNSLRAED	TAVYYCASLI	TTEDYWGQGT	TVT VSS	SEQ ID NO: 24
MEDI-hu37E1B5	LQMNSLRAED	TAVYYCAILI	TTEDYWGQGT	TVT VSS	SEQ ID NO: 7
B5-15	LQMNSLRAED	TAVYYCAILI	TTEDYWGQGT	TVT VSS	SEQ ID NO: 12
VL alignment					
		LCDR1		LCDR2	
Chi-37E1B5	EIVLTQSPSS	MYASLGERVT	IPCKASQDIN SYLSWFQQKP	GKSPKTLIIY	ANRLVDGVPS RFSGSGSGQD YSLTISSLEY
hu37E1B5	EIVLTQSPSS	LSLS PPGERVT	ITCKASQDIN SYLSWYQQKP	GKAPKLLIIY	ANRLVDGVPA RFSGSGSGQD YTLTISSLEP
MEDI-hu37E1B5	DIQ LTSPPSS	LSASV GDRVT	ITCKASQDIN SYLSWFQQKP	GKAPKSLIIY	ANRLVDGVPS RFSGSGSGTD FT LTISSLQ P
B5-15	DIQ LTSPPSS	LSASV GDRVT	ITCKASQDIN KYLSW FQQKP	GKAPKSLIIY	ANRLVDGVPS RFSGSGSGTD FT LTISSLQ P
LCDR3					
Chi-37E1B5	EDMGIIYYCIQ	YDEFFPYTFGG	GTKLEIK	SEQ ID NO: 22	
hu37E1B5	ED FAV IIYYCIQ	YDEFFPYTFGG	GTKLEIK	SEQ ID NO: 25	
MEDI-hu37E1B5	ED FAT IIYYCIQ	YDEFFPYTFGG	GTKVEIK	SEQ ID NO: 8	
B5-15	ED FAT IIYYCIQ	YD VFF PYTFGG	GTKVEIK	SEQ ID NO: 13	

FIG. 7A



Kidney tubular and glomerular (podocyte-like)



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FIG. 7B

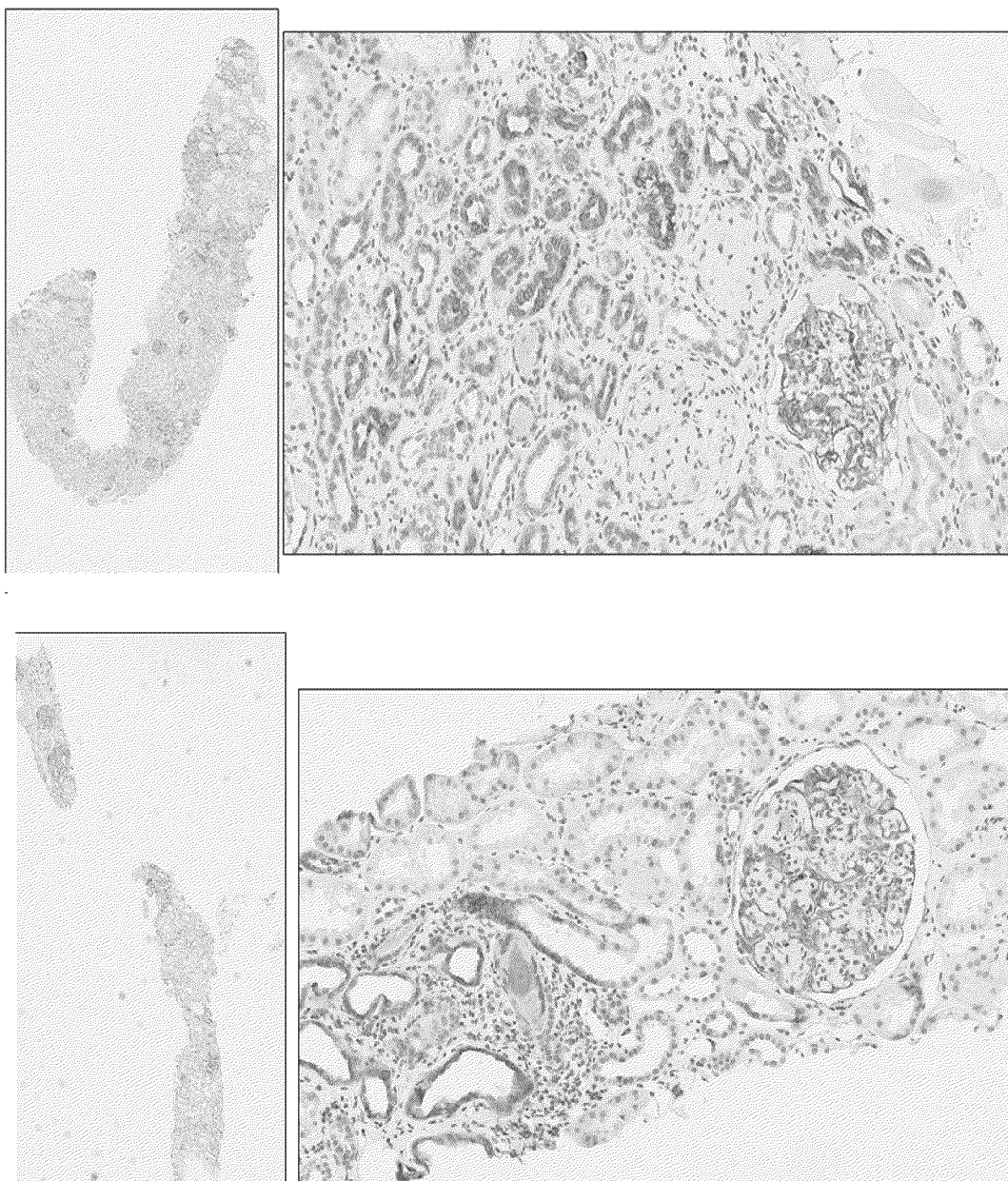


FIG. 7C

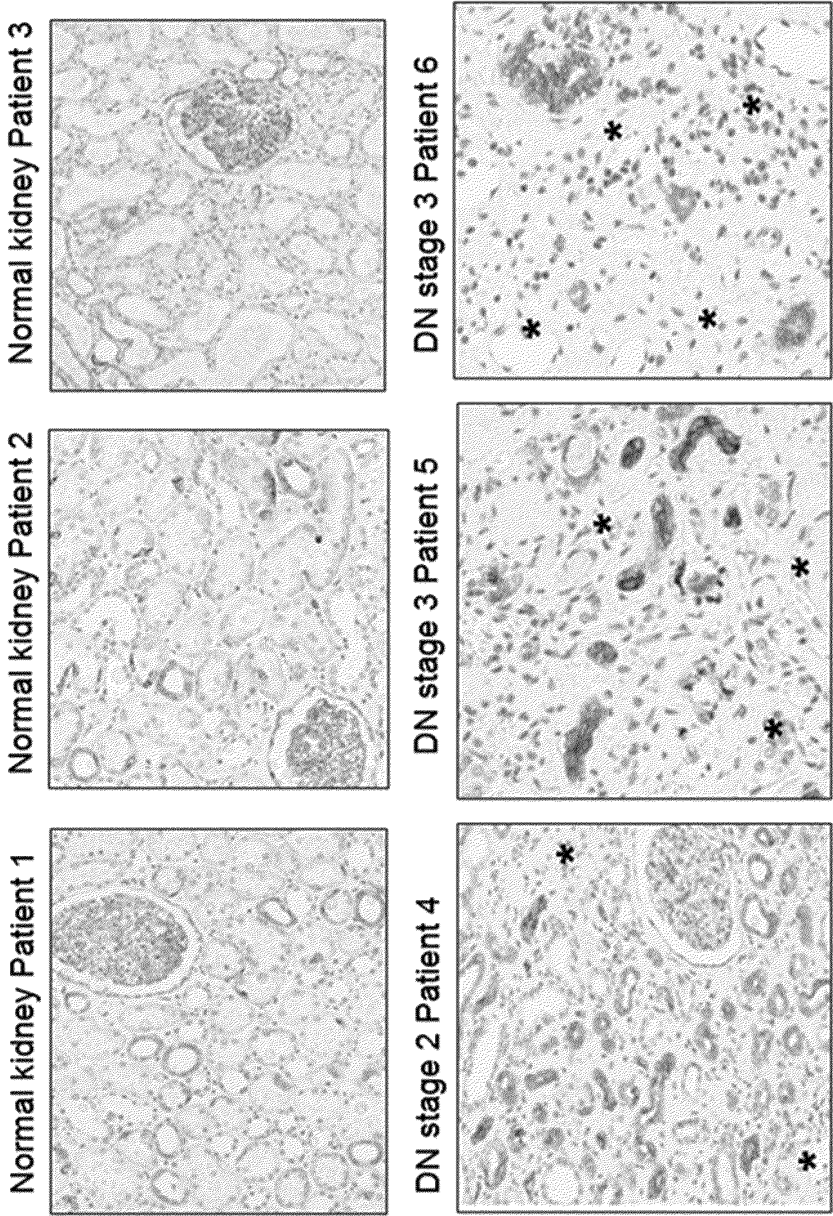


FIG. 8A

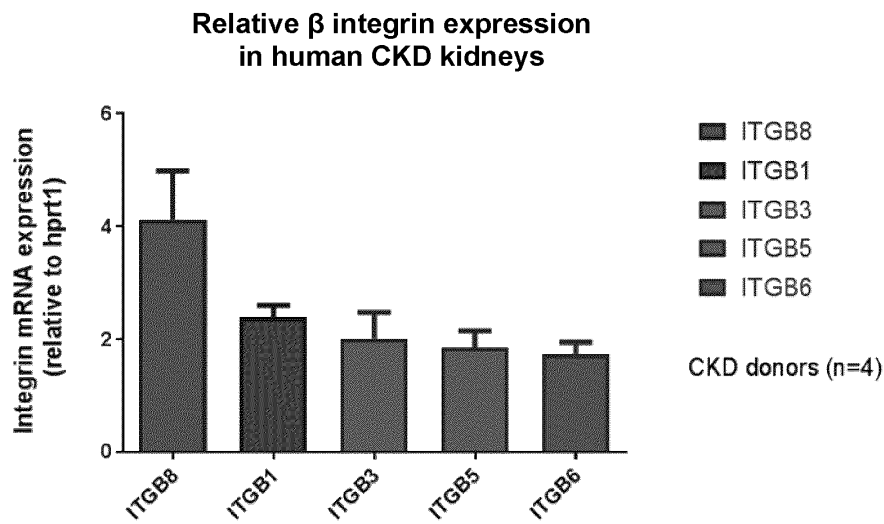


FIG. 8B

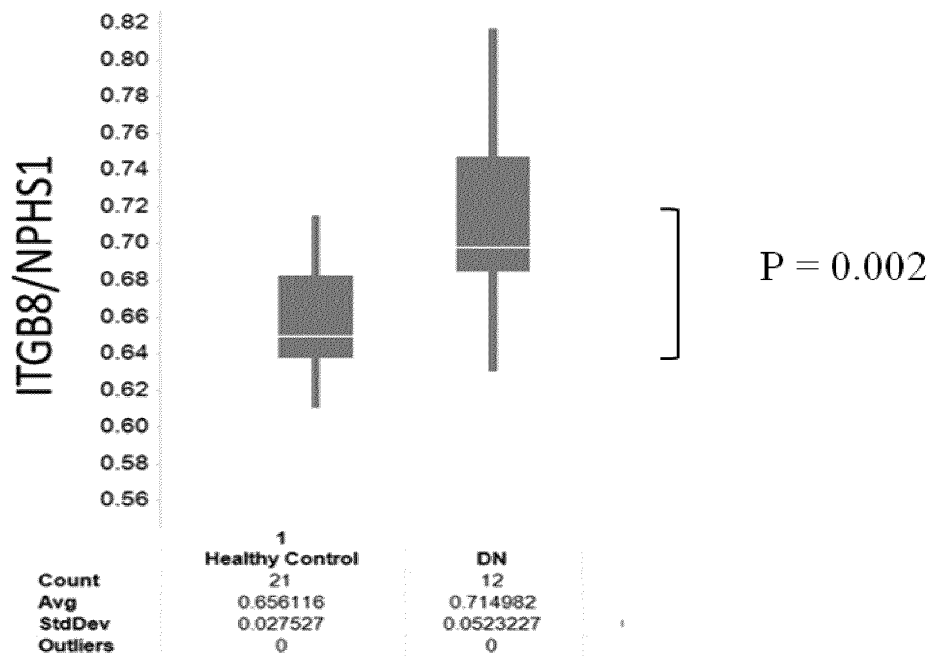


FIG. 8C

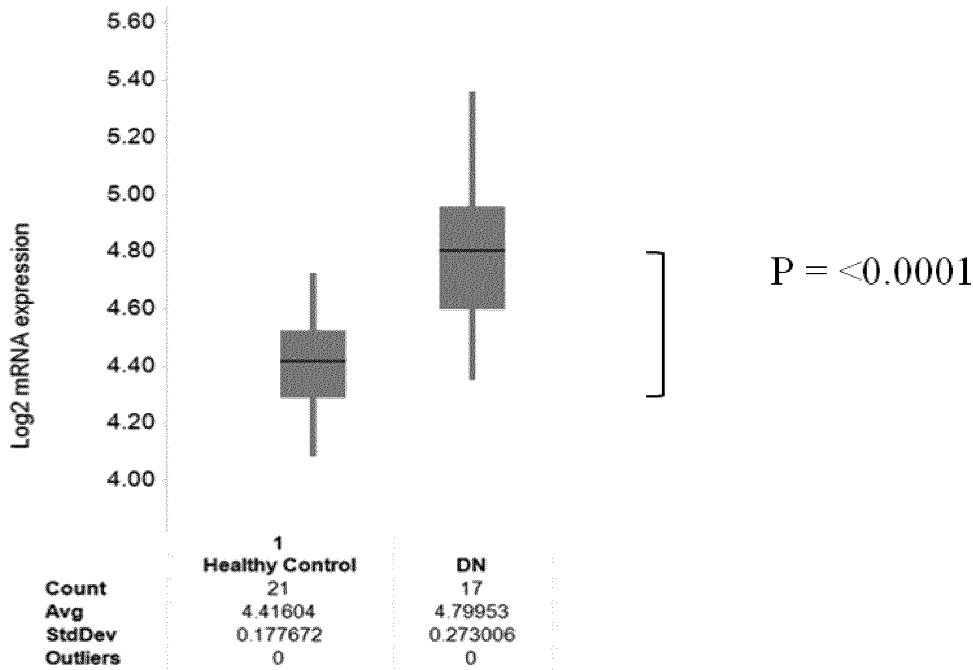


FIG. 8D

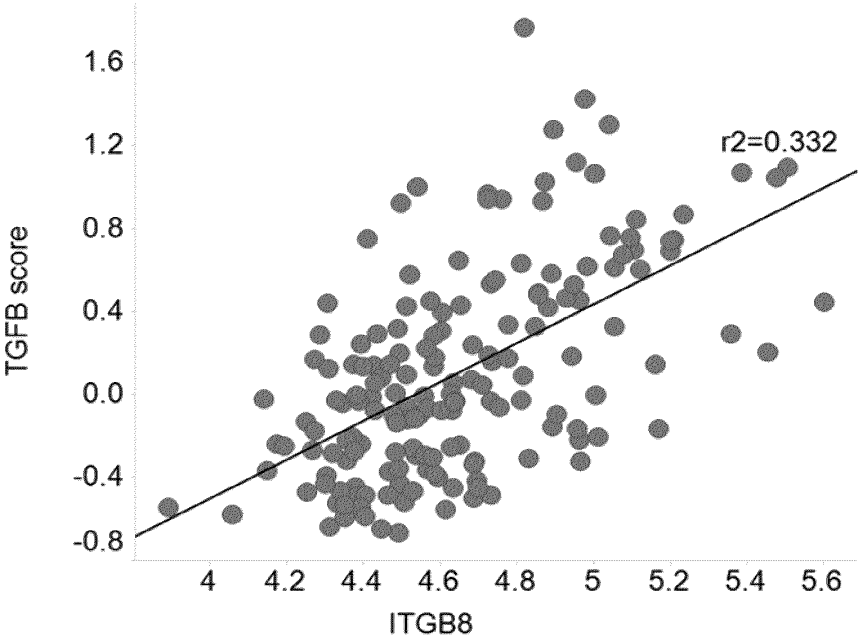


FIG. 8E

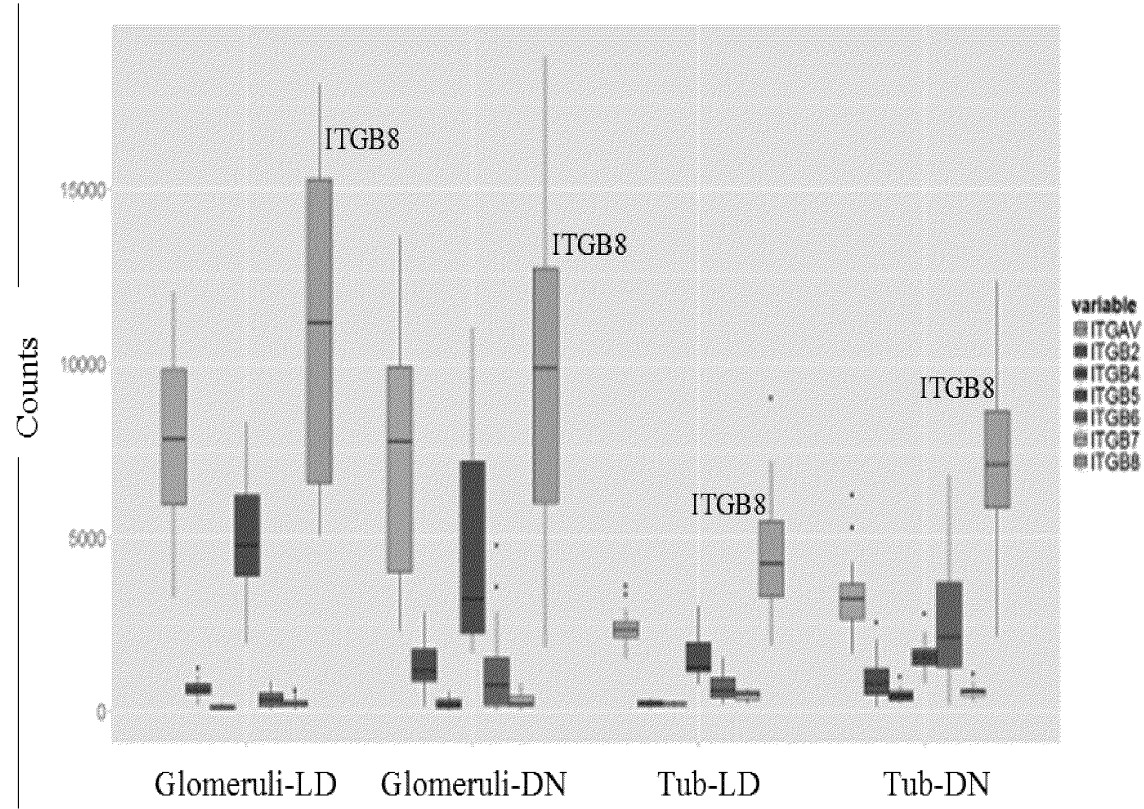


FIG. 9A

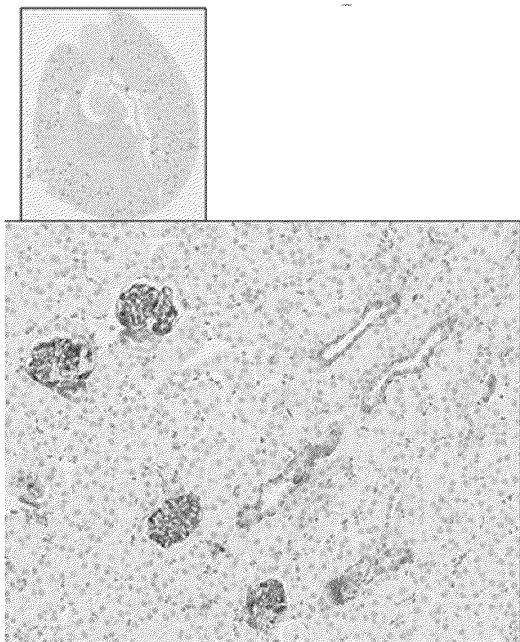


FIG. 9B

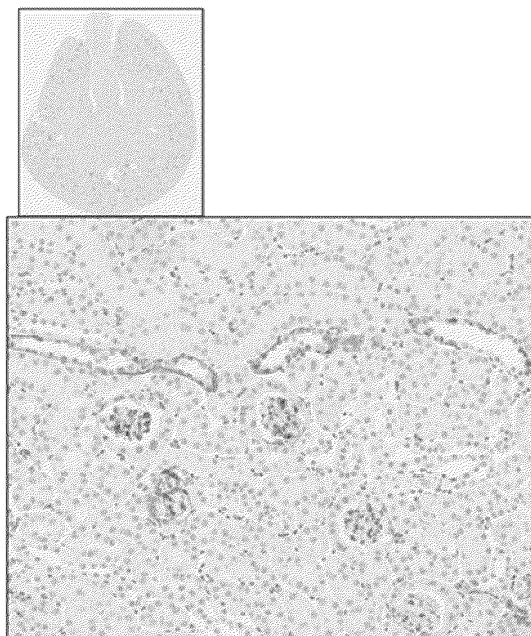


FIG. 9C

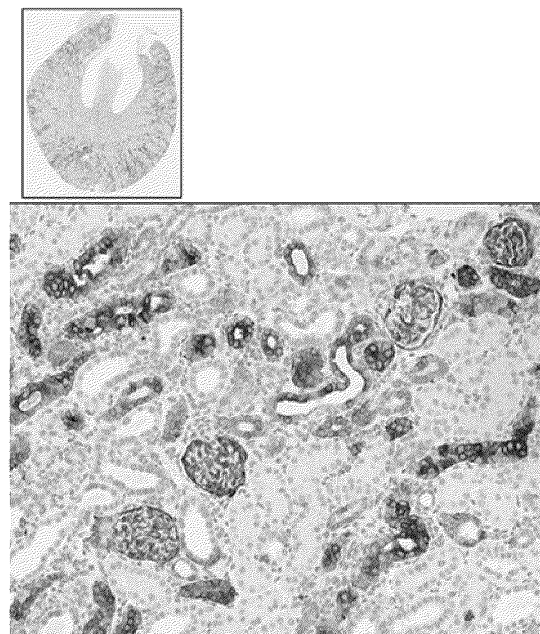
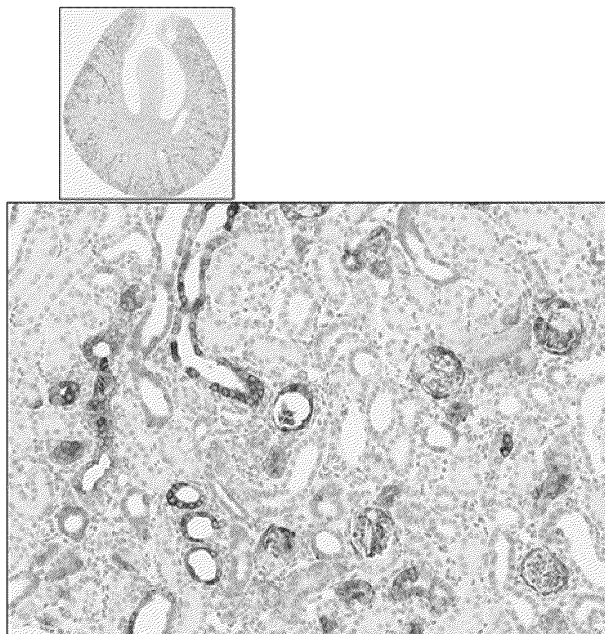


FIG. 9D



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FIG. 9E

Obstructed Collagen 1a1 mRNA

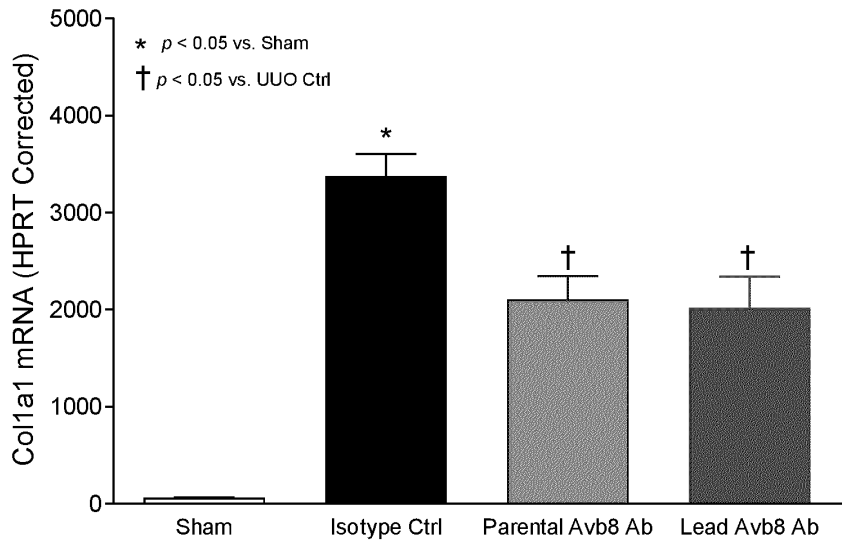


FIG. 9F

Obstructed Col3a1 mRNA

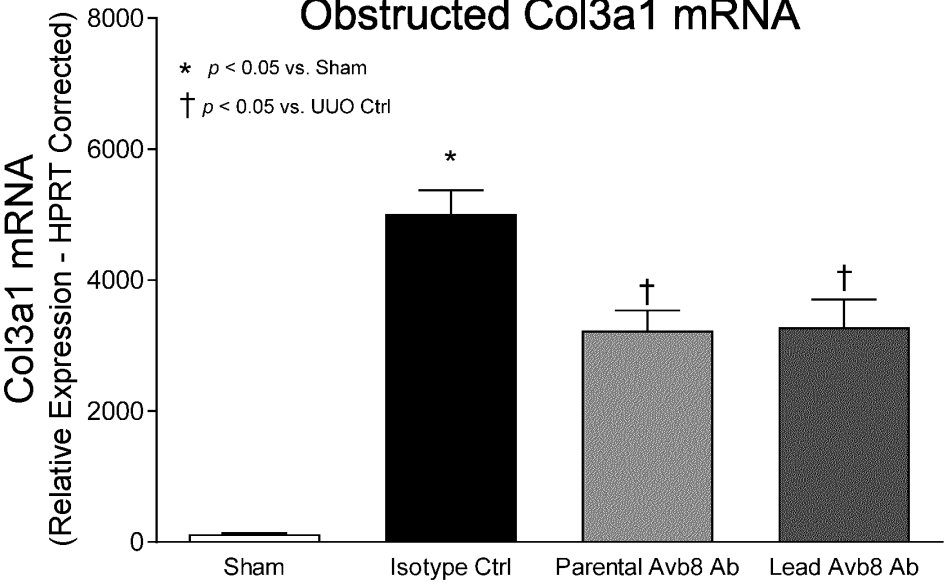


FIG. 9G

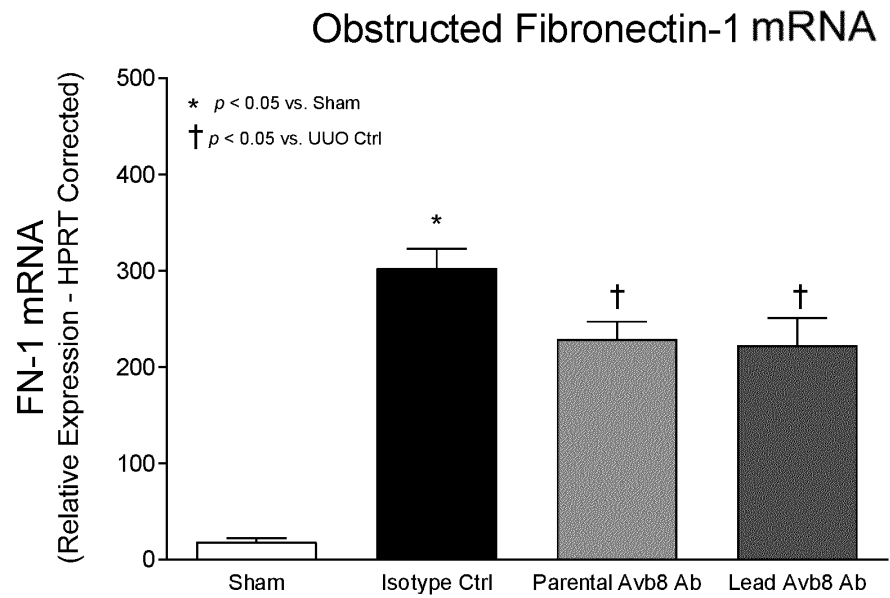
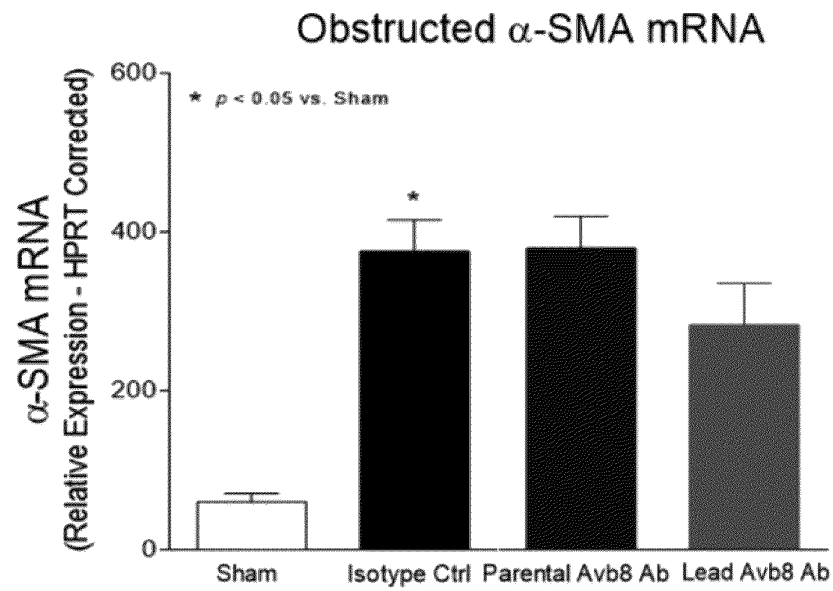


FIG. 9H



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FIG. 9I

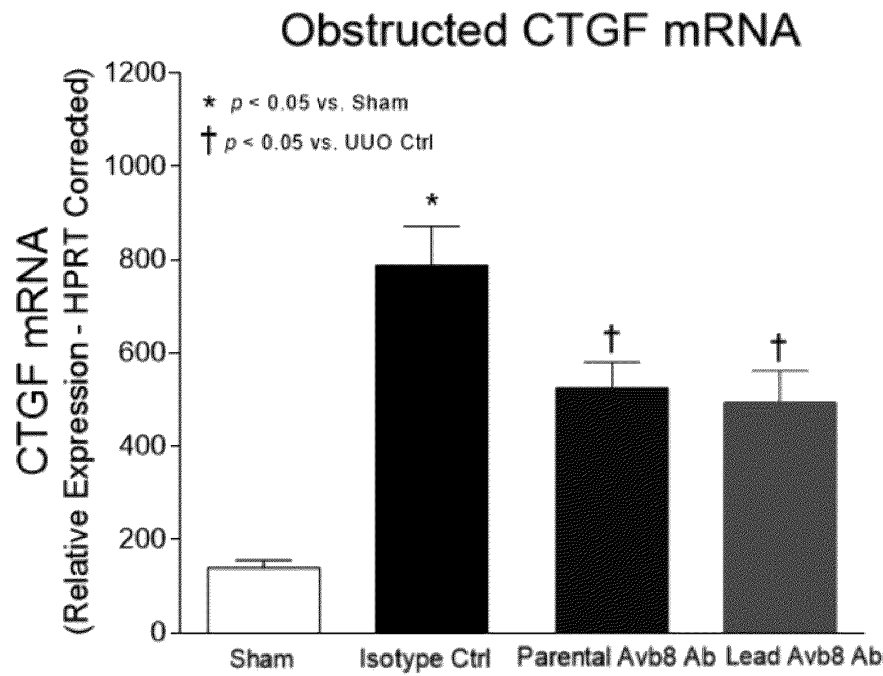
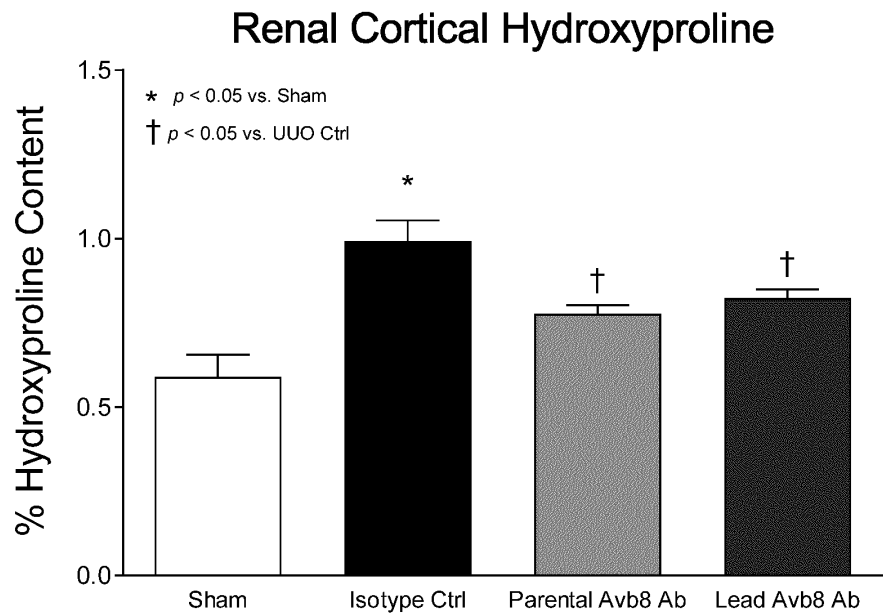


FIG. 9J



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FIG. 10A

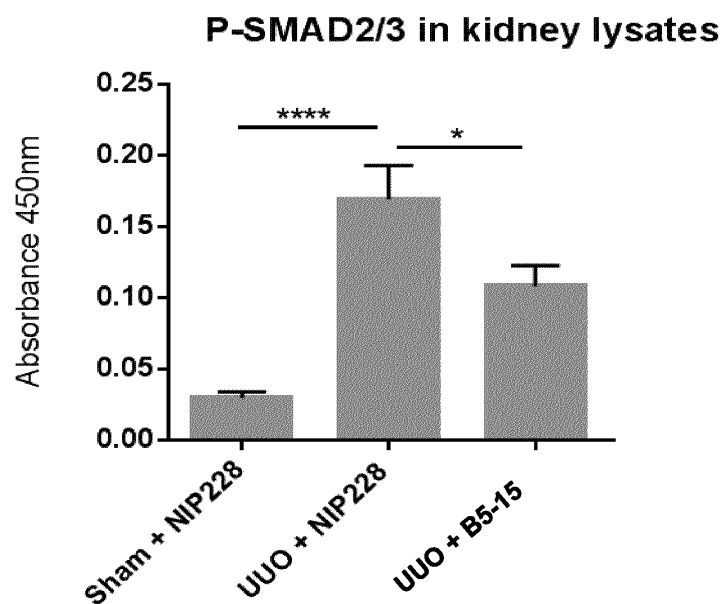


FIG. 10B

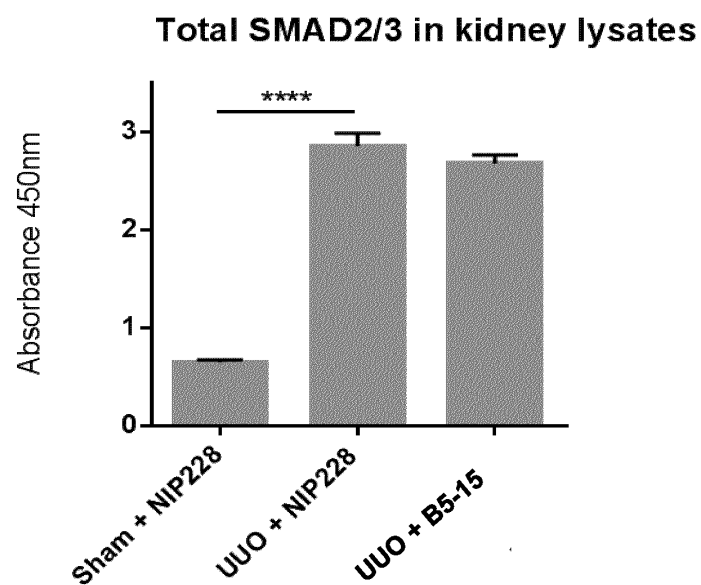


FIG. 11

