

CLAIMS

1. An isolated antibody that binds to human FcRn, the isolated antibody comprising: (1) a light chain variable region comprising a CDR L1, a CDR L2, and a CDR L3 and (2) a heavy chain variable region comprising a

CDR H1, a CDR H2, and a CDR H3, wherein

said CDR L1 has the sequence TGTGSDVGSYNLVS (SEQ ID NO: 1),

said CDR L2 has the sequence GDSEKPS (SEQ ID NO: 2),

said CDR L3 has the sequence SSYAGSGIYV (SEQ ID NO: 3),

said CDR H1 has the sequence TYAMG (SEQ ID NO: 4),

said CDR H2 has the sequence SIGASGSQTRYADS (SEQ ID NO: 8), and

said CDR H3 has the sequence LAIGDSY (SEQ ID NO: 11).

2. An isolated antibody comprising a light chain variable region and a heavy chain variable region, wherein said light chain variable region has the sequence of

QSALTQPASVSGSPGQSITISCTGTGSDVGSYNLVSQHPGKAPKLMYGDSEKPSGVSNRFGSKSGN
TASLTISGLQAEDEADYYCSSYAGSGIYVFGTGTKVTVLGQPKAAPSVTLFPPSSEELQANKATLVCLISDFYP
GAVTVAWKADSSPVKAGVETTTSPKQSNKYYAASSYLSLTPEQWKSHKSYSCQVTHEGSTVEKTVAPTEC
S (SEQ ID NO: 19); and

said heavy chain variable region has the sequence of

EVQLLESGGGLVQPGGSLRLSCAASGFTSTYAMGWVRQAPGKGLEWVSSIGASGSQTRYADSVKGRFTI
SRDNSKNTLYLQMNSLRAEDTAVYYCARLAIGDSYWGQGMVTVSSASTKGPSVFPLAPSSKSTSGGTAAL
GCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPPSSSLGTQTYICNVNHKPSNTKVDKK
VEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVH
NAKTKPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREE
MTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVVFSCSV
MHEALHNHYTQKSLSLSPG (SEQ ID NO: 24).

3. A nucleic acid molecule encoding an isolated antibody of claim 1 or claim 2.

4. A vector comprising the nucleic acid molecule of claim 3.

5. A host cell that expresses an isolated antibody of claim 1 or claim 2, wherein said host cell comprises a nucleic acid molecule of claim 3 or a vector of claim 4, wherein said nucleic acid molecule or vector is expressed in said host cell.

6. A method of preparing an isolated antibody of claim 1 or claim 2, wherein said method comprising:

a) providing a host cell comprising a nucleic acid molecule of claim 3 or a vector of claim 4, and

b) expressing said nucleic acid molecule or vector in said host cell under conditions that allow for the formation of said antibody.

7. A pharmaceutical composition comprising an isolated antibody of claim 1 or claim 2 and one or more pharmaceutically acceptable carriers or excipients.