

Production of Monoclonal Antibodies Targeting Aminopeptidase N in the Porcine Intestinal Mucosal Epithelium

Pengpeng Xia^{1,2,3}, Siqi Lian^{1,2,3}, Yunping Wu^{1,2,3}, Li Yan^{1,2,3}

¹College of Veterinary Medicine (Institute of comparative medicine), Yangzhou University ²Jiangsu Co-innovation Center for Prevention and Control of Important Animal Infectious Diseases and Zoonoses ³Joint International Research Laboratory of Agriculture and Agri-Product Safety of Ministry of Education of China, Yangzhou University

Corresponding Author

Pengpeng Xia
ppxia@yzu.edu.cn

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Materials

Name	Company	Catalog Number	Comments
Complete Freund's adjuvant	Sigma-Aldrich	F5881	Animal immunization
DAPI	Beyotime Biotechnology	C1002	Nuclear counterstain
DMEM	Gibco	11965092	Cell culture
DMEM-F12	Gibco	12634010	Cell culture
Dylight 549-conjugated goat anti-mouse IgG secondary antibody	Abbkine	A23310	Indirect immunofluorescence analysis
Enhanced Cell Counting Kit-8	Beyotime Biotechnology	C0042	Measurement of cell viability and vitality
Fetal bovine serum	Gibco	10091	Cell culture
Geneticin Selective Antibiotic	Gibco	11811098	Selective antibiotic
GraphPad Prism 8.0 software	GraphPad	8.0	Scientific data analysis and graphing
HAT Supplement (50X)	Gibco	21060017	Cell selection
HT Supplement (100X)	Gibco	11067030	Cell selection
Incomplete Freund's adjuvant	Sigma-Aldrich	F5506	Animal immunization
isopropyl β-d-1-thiogalactopyranoside	Sigma-Aldrich	I5502	Protein expression
kanamycin	Beyotime Biotechnology	ST102	Bactericidal antibiotic
Leica TCS SP8 STED confocal microscope	Leica Microsystems	SP8 STED	Fluorescence imaging
Lipofectamine 2000 Reagent	ThermoFisher	11668019	Transfection
LSRFortessa fluorescence-activated cell sorting	BD	FACS LSRFortessa	Flow cytometry
Microplate reader	BioTek	BOX 998	ELISA analysis
Micro spectrophotometer	Thermo Fisher	Nano Drop one	Nucleic acid concentration detection
NaCl	Sinopharm Chemical Reagent	10019308	Culture broth
(NH ₄) ₂ SO ₄	Sinopharm Chemical Reagent	10002917	Culture broth

Opti-MEM	Gibco	31985088	Cell culture
Polyethylene glycol 1500	Roche Diagnostics	10783641001	Cell fusion
PrimeScript 1st strand cDNA Synthesis Kit	Takara Bio	RR047	qPCR
protein A agarose	Beyotime Biotechnology	P2006	Antibody protein purification
Protino Ni+-TED 2000 Packed Columns	MACHEREY-NAGEL	745120.5	Protein purification
SBA Clonotyping System-HRP	Southern Biotech	May-00	Isotyping of mouse monoclonal antibodies
Seamless Cloning Kit	Beyotime Biotechnology	D7010S	Construction of plasmids
Shake flasks	Beyotime Biotechnology	E3285	Cell culture
Sodium carbonate-sodium bicarbonate buffer	Beyotime Biotechnology	C0221A	Cell culture
Trans-Blot SD Semi-Dry Transfer Cell	Bio-rad	170-3940	Western blot
Tryptone	Oxoid	LP0042	Culture broth
Ultrasonic Homogenizer	Ningbo Xinzhi Biotechnology	JY92-IIN	Sample homogenization
Yeast extract	Oxoid	LP0021	Culture broth
96-well microplate	Corning	3599	Cell culture