

BD Biosciences Surface by Cell Type Reference Chart

BD BioCoat™ Surface (cell type family)	Specific Cell type	Mouse	Rat	Human	Other	Collagen I	Collagen IV	Gelatin	Poly-Lysine (PDL, PLL)	Fibronectin	Laminin	BD Matrigel™	BD Matrigel thin layer	PDL/LM or PLO/LM	BD PureCoat™ Amine	BD PureCoat™ Carboxyl	BD Primaria™
1003 embryonal carcinoma cells											X ⁽¹¹²⁾						
293T cells	Transfected									X ⁽⁹¹⁾					X		
3T3 cells	Fibroblast	X							X ⁽⁶⁴⁾	X ⁽⁹⁰⁾							
41A3 (N1 and N&7) cells	Neuroblastoma	X								X ⁽¹⁰¹⁾							
ARH-77 cells	Lymphoblast			X						X ⁽¹⁰³⁾							
Astrocytes	Glial cells	X	X		X				X ^(70, 71, 73)				X ⁽¹⁵⁴⁾		X		
BAEC (vascular endothelial cells)	Endothelial				X			X ⁽⁴⁷⁾									
BHK-21 cells	Fibroblast				X					X					X		
Bile duct cells	Epithelial		X									X ⁽¹⁴¹⁾					
BME (vascular endothelial cells)	Endothelial							X ⁽⁴⁸⁾									
Bovine aortic endothelial cells	Endothelial				X	X ⁽⁴⁾											
Bovine brain microvessel endothelial cells	Endothelial				X	X ⁽³⁾											
Brain microvessels			X									X ⁽¹³³⁾					
Brain cortex	Neuronal cells		X														
Buccal cells	Epithelial			X								X ⁽¹³⁴⁾					
C2C12 cells	Myoblast	X				X ⁽²⁴⁾		X ⁽⁵³⁾									
Cardiac endothelium cells	Endothelial												X ⁽¹⁴⁶⁾				
Cardiomyocytes		X	X		X						X ^(115, 116, 117)					X	
Cardiomyocytes	Primary																X ⁽¹⁷⁰⁾
Cerebellar granule	Primary neurons	X	X						X ^(85, 83, 86, 87, 88)						X		
Cerebellar macroneurons													X ⁽¹⁵³⁾				
CHO cells	Epithelial				X										X		
CHO cells	Endothelial																X ⁽¹⁶⁷⁾
CHO-1 cells	Epithelial				X				X ⁽⁵⁸⁾								
Colonocytes					X							X ⁽¹³⁸⁾					
Cortical neurons	Primary neurons		X						X ^(67, 75, 76)								
COS-7 cells	Fibroblast				X	X ⁽¹⁷⁾			X ^(56, 65, 70, 66, 67)								
COS-7 cells	Transfected				X				X ⁽⁸⁵⁾								X ⁽¹⁶⁵⁾
Dorsal root ganglia	Primary neurons	X	X						X					X ^(150, 158, 159, 160)			
Dorsal root ganglia	Transfected								X								
E18 hippocampal neurons	Primary neuronal cells												X ⁽¹⁵¹⁾				
EcoPack 2-293									X								
Embryonic myocytes and myoblasts			X	X	X	X ^(9, 10, 11)											
Embryonic stem cells	Stem cells	X					X ⁽⁴⁰⁾	X ⁽⁵³⁾				X					
Embryonic sympathetic neurons	Primary neuronal cells		X										X ⁽¹⁴⁸⁾				
Endothelial cells	Endothelial	X		X	X		X ^(30, 33)			X ⁽⁹⁷⁾							X ⁽¹⁷³⁾
Epidermal stem cells	Stem cells			X			X ⁽³⁷⁾										
F9 cells	Epithelial	X						X ⁽⁵⁴⁾									
Fetal bovine heart endothelial cells (FBHECs)	Endothelial				X	X											
Glial feeder layers as a substrate for neurons													X ⁽¹⁴⁹⁾				
GT1-7 cells	Neuronal cells	X							X ⁽⁶⁸⁾								
H1299 cells	Transfected									X ⁽⁹¹⁾							
HEK-293 cells	Epithelial			X		X ⁽²⁶⁾			X ^(54, 55, 56, 57, 58, 59, 79, 80, 81, 82)						X	X	
HEK-293 cells	Transfected			X		X ⁽¹⁹⁾											X ⁽¹⁶⁸⁾
HeLa																	
Hepatic sinusoidal cells	Endothelial		X									X ⁽¹³⁰⁾					
HepG2 cells	Hepatocyte			X		X									X	X	
Hippocampal neurons	Primary neurons		X						X ⁽⁷⁴⁾				X ⁽¹⁵⁷⁾				
HS Sultan	Lymphoblast			X						X ⁽¹⁰³⁾							
HT-1080 cells	Epithelial			X		X	X ⁽⁴²⁾										X
Human SMC							X ⁽⁵⁰⁾										
Urothelial cells				X								X ⁽¹³⁹⁾					
HUVECs	Endothelial			X		X ^(1, 2, 25)		X ^(55, 56)		X ^(93, 98, 99)		X ⁽¹²⁷⁾					
HVSMC				X							X ⁽¹²³⁾						



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Hybrid eosinophil/basophil granulocytes				X								X ⁽¹²⁹⁾					
IM-9 cells	Lymphoblast			X						X ⁽¹⁰³⁾							
IMR-90 cells	Fibroblast			X						X ⁽¹⁰⁶⁾							
Keratinocytes				X	X						X ⁽¹¹⁰⁾					X	
Kupffer cells			X			X ⁽²⁷⁾											
L929 cells	Transfected								X								
Lacrimal gland cells	Epithelial			X								X ^(131, 132)					
Mammary epithelial cells	Epithelial	X									X ⁽¹¹⁹⁾	X ⁽¹²⁸⁾					
MC3T3-E1 osteoblasts-like cell line		X									X ⁽¹¹⁴⁾						
MCF-10A cells	Epithelial			X						X ⁽⁹²⁾	X ^(121, 122)			X			
MCF7 cells	Epithelial			X						X ⁽¹⁰⁵⁾							
MDA-231 cells				X		X ⁽²⁸⁾			X ⁽²⁸⁾	X ⁽²⁸⁾	X ⁽²⁸⁾						
MDA-MB 435 cells				X		X ⁽¹⁶⁾											
MG-7 cells		X							X ⁽⁸⁹⁾								
Microvascular cells	Endothelial									X ⁽¹⁰²⁾							
MM14 cells	Myoblast	X						X ⁽⁵³⁾									
MM41 skeletal myoblasts	Transfected					X ⁽¹⁴⁾											
Monocytes										X ⁽¹⁰⁰⁾							
MRC-5			X										X ⁽¹⁴²⁾			X	
Muscle cells			X														
Myoblasts											X ⁽¹¹³⁾						
Myogenic cells					X							X ⁽¹²⁵⁾					
N1-E115 cells	Neuronal cells										X ⁽¹²⁰⁾			X ⁽¹²⁰⁾			
N2A		X													X		
Neocortical	Primary neurons	X							X ⁽⁷⁷⁾								
Neuro-2A cells	Neuronal stem cells	X									X ⁽¹²⁰⁾			X ^(120, 155)			
Neuronal cells	Primary neurons	X	X						X ⁽⁷³⁾		X ⁽¹⁰⁹⁾						X ⁽¹⁷²⁾
NG-108 cells			X				X				X			X			
NIH/3T3 cells	Fibroblast	X							X ⁽⁶⁰⁾	X ^(95, 104)							
NT2 cells	Epithelial			X									X ⁽¹⁴⁴⁾				
Osteoblasts																	X ⁽¹⁷¹⁾
Osteopontin (OPN) deficient rat vascular smooth muscle cells												X					
Primary pancreatic islet			X												X		
Parotid acinar cells			X									X ⁽¹²⁴⁾					
PC-12 cells			X			X ⁽¹⁵⁾	X ^(21, 34, 35, 36, 43, 47)		X ^(61, 62, 63)					X ⁽¹⁵⁹⁾	X	X	
Peripheral blood mononuclear cells				X		X ⁽¹⁸⁾											
Pituitary gland tissue		X										X ⁽¹³⁷⁾					
Primary aortic endothelial cells	Endothelial				X	X ^(5, 6)											
Primary astrocytes	Transfected		X						X ⁽⁸⁶⁾								
Primary brain capillaried		X							X ⁽⁷⁹⁾								
Primary cardiomyocytes		X	X		X	X ^(13, 20, 29)											
Primary embryonic cortical neurons	Primary neuronal cells													X ⁽¹⁵⁶⁾			
Primary hepatocytes	Hepatocyte	X	X	X		X ^(5, 6, 7, 8)	X ^(41, 49)					X ^(135, 136)					X ^(161, 162, 163, 164)
Primary hippocampal neurons	Primary neuronal cells													X			
Primary oligodendrocytes	Glial cells		X						X ⁽⁶⁹⁾								
Rat 1 cells	Transfected		X						X ⁽⁸⁴⁾								
RAW 264.7 cells	Macrophage	X					X ⁽³²⁾				X ⁽³²⁾						
RPMI-8226 cells	Lymphoblast			X						X ⁽¹⁰³⁾							
Sc2N2 cells														X ⁽¹⁵⁵⁾			
Schwann cells	Glial cells	X							X ⁽⁷²⁾								
Sciatic neurons	Primary neurons								X								
Sensory neurons	Neuronal cells				X		X ⁽³¹⁾				X ⁽³¹⁾						
Septal neurons	Primary neurons								X ⁽⁷⁸⁾								
Sertoli cells			X									X ⁽¹²⁶⁾					
SH-SY5Y cells	Epithelial			X		X ⁽²¹⁾	X ⁽²¹⁾				X ⁽¹²⁰⁾			X ⁽¹²⁰⁾			
Skeletal myotubes			X										X ⁽¹⁴⁰⁾				
SK-MEL-28 cells				X			X ⁽²³⁾			X ⁽⁹⁴⁾	X ⁽²³⁾						

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		Mouse	Rat	Human	Other	Collagen I	IV	Gelatin	Fibronectin	Laminin	BD Matrigel™ thin layer				
SK-MEL-28-N1 cells				X		X ⁽²⁵⁾	X ⁽⁴⁸⁾								
Skeletal muscle cells	Primary														X ⁽¹⁶⁹⁾
Smooth muscle cells	Endothelial		X	X	X	X ⁽¹²⁾	X ⁽³⁰⁾		X ⁽⁹⁶⁾						
Smooth muscle cells	Primary														X ⁽¹⁶⁸⁾
Spinal cord neurons	Primary neurons								X						
Squamous cells	Epithelial				X				X ⁽¹⁰⁸⁾						
Striatal cells												X ⁽¹⁵²⁾			
SW626 cells	Epithelial				X				X ⁽¹⁰³⁾						
Sympathetic neurons	Primary neurons								X						
U266	Lymphoblast				X				X ⁽¹⁰³⁾						
U937 cells	Monocyte				X										
Urothelial cells					X										
Uterine epithelium cells	Epithelial		X										X ⁽¹⁴³⁾		
Vascular smooth muscle cells													X ⁽¹⁴⁵⁾		
VIC									X ⁽¹⁰⁷⁾						
Placental cells	Epithelial				X									X	
Brain stem cells	Stem cells		X											X	
Mesenchymal stem cells	Stem cells				X							X ⁽¹⁴⁷⁾	X (growth)	X (differentiation)	
Adipose-derived stem cells	Stem cells				X								X (growth and differentiation)	X (differentiation)	
E14d cortex-derived neural stem cells	Stem cells		X										X		
EcoPack 2-293	Transfected													X	X
Flp-In T-Rex 293	Transfected													X	
hERG-T-Rex 293 division arrested cells	Transfected				X									X	
Living Colors HEK ZsGreen proteasome sensor	Transfected													X	X

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