

## FFPE BIOMARKER MENU

### Automated Staining Run on Ventana DiscoveryUltra Platform

Single DAB Stains <small>*other dye colors available upon request</small>	Target Tissue <small>*xenograft = human cells in mouse model</small>	Protocol #
α-Smooth Muscle Actin (D4K9N)	Human & Mouse	1207
Arginase1 (SP156)	Human & Xenograft	1002
AURKB (EP1009Y)	Human & Xenograft	1003
Axl (C89E7)	Human & Xenograft	1221
Bag3 (EPR3515)	Human & Xenograft	1004
BCL-2 (EPR17509)	Human & Mouse	1005/1006
BCL2L1 (BCL-XL) (Rb Polyclonal)	Human	1126
BCL-XL (E18)	Human	1007
Caveolin-1 (D46G3)	Human & Xenograft	1219
CD1a (EP3622)	Human	1010
CD1c (BDCA-1) (OTI2F4)	Human	1236
CD3 (2GV6)	Human	1011
CD3 (SP7)	Human	1012
CD3 (SP7)	Mouse	1013
CD3e (D4V8L)	Mouse	1196
CD3e (D7A6E)	Human	1258
CD4 (SP35)	Human	1014
CD4 (EPR19514)	Mouse	1015
CD8 (SP57)	Human	1016
CD8 (4B11)	Human	1137
CD8a (D8A8Y)	Human	1267
CD8a (4SM15)	Mouse	1017
CD11a (I21/7)	Human	1018
CD11a (I21/7)	Mouse	1019
CD11b (Rb Poly)	Mouse	1020
CD11c (D3V1E)	Human	1127
CD19 (EPR5906)	Human & Xenograft	1021
CD20 (L26)	Human	1022
CD34 (EP373Y)	Human & Mouse	1096
CD45, LCA (RP2/18)	Human	1024/1025
CD45, LCA (RP2/18)	Xenograft	1076
CD45 (D9M8I)	Human	1217
CD45 (30-F11)	Mouse	1027
CD46 (D6N7H)	Human	1222
CD53 (EPR4342[2])	Human & Xenograft	1183
CD56 (MRQ-42)	Human & Xenograft	1029
CD68 (PG-M1)	Human	1032
CD72 (Rb Polyclonal)	Human	1089
CD103 (EPR4166[2])	Human & Xenograft	1176
CD141 (E7Y9P)	Human & Xenograft	1180
CD163 (EPR19518)	Human	1266
CDK1 (A17)	Xenograft	1179

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Cleaved Caspase 3 (5A1E)	Human	1257
c-Met (SP44)	Human	1034/1035
c-Met (3D4)	Human	1036
COX2 (SP21)	Human & Mouse	1037
Cytokeratin (AE1/AE3)	Human	1174
Cytokeratin 5+6 (RM341)	Human & Xenograft	1191
<b>DLL3 (SP347) - special request</b>	<b>Human &amp; Xenograft</b>	<b>1210</b>
E-Cadherin (24E10)	Human	1038
<b>EDNRB (Rb Polyclonal) - special request</b>	<b>Human &amp; Xenograft</b>	<b>1208</b>
<b>EGFR (5B7) - special request</b>	<b>Human</b>	<b>1039</b>
EpCAM (D9S3P)	Human	1259
EVI2B (Rb Polyclonal)	Human	1182
Ezh2 (D2C9)	Human & Mouse	1040
FAP (EPR20021)	Human & Mouse	1189/1190
FOXP3 (PCH101)	Human	1041
FOXP3 (FJK-16s)	Mouse	1042
FOXP3 (SP97)	Human	1043
GFAP (Rb Polyclonal)	Human	1105
gp100 (EPR4864)	Human & Xenograft	1129
Granzyme B (EPR8260)	Human	1045
Granzyme B (D6E9W)	Human	1175
ErbB2/HER2 (CAL27)	Human & Mouse	1255
HER3/ErbB3 (D22C5)	Human & Mouse	1046
Tri-Methyl-Histone H3 (Lys36)	Human & Mouse	1047
Histone H3 (tri-methyl K36)	Human & Mouse	1048
HLA-DR (EPR3692)	Human & Xenograft	1050
HLA-DR (LN3)	Human	1093
Hsp70 [2A4] (2A4)	Human & Mouse	1051
Human Nucleoli (NM95)	Human	1052
Integrin Beta-7 (Rb Polyclonal)	Human	1178
Interferon-Beta (Rb Polyclonal)	Human & Xenograft	1268
Ki-67 (30-9)	Human	1053
Ki-67 (SP6)	Mouse	1055
LZTS2 (Rb Polyclonal)	Human & Mouse	1192
MCL1 (Rb Polyclonal)	Human	1097
MCM2 (D7G11)	Human	1098
<b>p-16 histology (E6H4) (CINTEC) - special request</b>	<b>Human</b>	<b>1056/1057</b>
PAK6 (Rb Polyclonal)	Human & Xenograft	1058
p-AKT Ser473 (D9E)	Human & Mouse	1059
PD-1 (EPR4877(2))	Human & Xenograft	1061
PD-1 (NAT 105)	Human	1062
PD L1 (E1L3N)	Human & Xenograft	1063
<b>PD L1 (SP263) - special request</b>	<b>Human &amp; Xenograft</b>	<b>1064</b>
PD-L2 (D7U8C)	Human & Xenograft	1066
pEGFR Y845 (Rb Poly)	Human	1067
<b>pEGFR Y845 (Rb Poly) - special request</b>	<b>Human</b>	<b>1068</b>
p-IRE1 (Rb Polyclonal)	Human	1215

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PLK3 (Rb Poly)	Human & Mouse	1073/1074
p-MAPK (Erk1/2) (Thr202/Tyr204)	Human & Mouse	1075
p-MET (Tyr1234/1235)(D26)	Mouse	1250
p-S6 Ser235/236 (D57.2.2E)	Human	1077
p-S6 Ser235/236 (D57.2.2E)	Mouse	1078
Phospho-Src (Tyr527)	Human & Mouse	1070
Phospho-Src (Y419)	Human	1071/1072
PSMA (3E6)	Human	1080
PSMA (3E6)	Xenograft	1213/1214
ROR gamma T (6F3.1)	Human	1001
ROR gamma (EPR20006)	Mouse	1152
Serping 1 (3F4-1D9)	Human	1103
SOX2 (D1C7J)	Human & Xenograft	1220
Src (36D10)	Mouse	1082
STEAP1 (Rb Polyclonal)	Human & Xenograft	1209
STING (D2P2F)	Human	1197/1198
TdT (Rb Polyclonal)	Mouse	1130
TRIM9 (Rb Polyclonal)	Mouse	1227
TRIM67 (Rb Polyclonal)	Mouse	1228
TPX2 (Rb Polyclonal)	Human & Xenograft	1085
Tyrosinase (T311)	Human	1128
Vimentin (V9)	Human	1084
XCR1( D2F8T)	Human	1254

**MULTIPLEX - Chromogenic****Dual Chromogenic Stains**

PD-L1/CD8	Human	1151
CD3/PSMA	Human	3020
CD3/PSMA	Xenograft	3056
CD3/CD68	Human	3027
EZH2/FOXP3	Human	2132
CD20/CD3	Human	2114
Tri-Methyl-Histone/CD45, LCA	Human	2120
CD56/CD3	Human	2998
Serping 1/GFAP	Human	1110
PD-L1/PD-1	Human	2168
gp100/CD11c	Human	2174
Tyrosinase/CD11c	Human	2175
CD4/CD8	Human	2167
PD-1/CD8	Human	2176
PD-1/CD4	Human	2187
Caveolin-1/CK 5+6	Human & Xenograft	2190
Sox2/CK 5+6	Human & Xenograft	2191
Axl/CK 5+6	Human & Xenograft	2193
CD8a/CD4	Mouse	2154

**Triple Chromogenic Stains**

FOXP3/CD4/CD8	Human	1125
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<b>Ki-67/p16/COX2 - special request</b>	<b>Human</b>	<b>3504</b>
CD3/CD68/RORgT	Human	4093
FOXP3/CD4/CD8a	Mouse	4055
ROR gamma/CD8a/CD4	Mouse	3908
ROR gamma/CD11b/CD3	Mouse	3911
<b>MULTIPLEX - Immunofluorescent (IF)</b>		
<b>Multiplex IF - Ventana</b>		
CD20/CD3/CD8/CD68/FOXP3 (Immune Panel)	Human	4000
CD20/CD3/CD8/CD4/FOXP3	Human	3996
CD4/CD8a/FOXP3	Mouse	4131
CD45/CD8/CD4/FOXP3 (T-Cell Panel)	Human	3522
CD20/Ki-67/CD8/CD4/FOXP3	Human	4142
PD-L1/Ki-67/CD8/CD4/FOXP3	Human	4143
PD-L1/HLA-DR/CD3/CD68	Human	3495
PD-L1/HLA-DR/CD45/XCR1 (Myeloid Panel)	Human	3531
PD-L1/CD163/CD8a/CD3e/FOXP3 (IP:Melanoma)	Human	3552
<b>Multiplex IF - Akoya OPAL</b>		
Panel 1.1: FOXP3/PanCK/Ki-67/CD20/CD3/CD117	Human	4947
Panel 2: PD-L1/PD-1/CD8/PanCK/CD68/CD3	Human	4979