Tumor biomarkers

**Apoptosis**
Some tumor cells undergo programmed cell death which involves a series of biochemical events leading to a defined cell morphology prior to death.

**Invasion**
Tumor cells invade into the circulatory vessels and lymphatics via small vessels.

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Angiogenesis
Growing tumor with developing blood vessels and lymphatics

Metastasis
Migrating tumor cells settle in distant organs & form metastases

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www.abcam.com/tumor_biomarkers
Biomarker antibodies from Abcam:

**Angiogenesis**
- VEGF antibody [VG-1] M ELISA, ICC, ICC/IF, IHC-Fr, IHC-P, IP, WB Ms Hu, Ms, Rat, Dog 1316
- TIMP2 antibody [3A4] M IHC-Fr, IHC-P, WB Ms Hu, Ms, Rat, Cow, Gpig, Rb 1828
- VEGF Receptor 2 antibody P Flow Cyt, ICC/IF, IHC-Fr, IHC-P, IP, WB Rb Hu, Ms, Rat, Cow, Dog 2349
- IL6 antibody P ELISA, IHC-Fr, IHC-P, IP, Neut, RIA, WB Rb Hu, Ms, Rat, Pig 6672
- IL8 antibody P ELISA, IP, WB Rb Hu, Rat, CynMk, RMk 7747
- VEGF Receptor 2 antibody [KDR/EIC] M ELISA, Flow Cyt, ICC/IF, IHC-Fr Ms Hu, Rat 9530
- FG basic antibody P IHC-P, WB Rb Hu, Rat 16828
- TNF Receptor 1 antibody P Flow Cyt, ICC/IF, IHC-Fr, IP, WB Rb Hu, Ms, Rat, Cow, Dog, Dm, Hm 19139
- VEGF Receptor 3 antibody P IHC-P, IP, WB Rb Hu, Ms, Rat 27278
- TGF beta 1 antibody [TB21] M ELISA, IHC-Fr, IHC-P, WB Ms Hu, Rat, Shp 27969
- VEGF Receptor 1 antibody [Y103] M ICC/IF, IHC-P, IP, WB Ms Hu, Rat 32152
- MMP9 antibody - Whole molecule P IHC-Fr, IHC-P, IP, WB Rb Hu, Ms 38898
- MMP3 antibody [4B7.3] M WB Ms Hu 38907
- TIMP1 antibody - Carboxyterminal end P ELISA, IP, WB Rb Hu, Ms, Rat 51074

**Invasion**
- VEGF antibody [VG-1] M ELISA, ICC, ICC/IF, IHC-Fr, IHC-P, IP, WB Ms Hu, Ms, Rat, Dog 1316
- E Cadherin antibody [HECD-1] M ICC/IF, IF, IHC-Fr, IHC-P, WB Ms Hu 1416
- MMP2 antibody [MMP2/884] M IHC-Fr, IHC-P, IP, sELISA, WB Ms Hu, Ms, Rat 7032
- Kallikrein 13 antibody P WB Rb Hu 7285
- HGF antibody [24612.111] M ELISA, Neut, WB Ms Hu 10678
- E Cadherin antibody [DECMA-1] M Flow Cyt, ICC/IF, IHC-Fr, Inhib, IP, WB Rat Hu, Ms, Dog 113512
- MUC1 antibody P IHC-P Rb Ms 15481
- uPAR Receptor antibody P ELISA, Flow Cyt, WB Ms Hu 27423
- TGF beta 1 antibody [TB21] M ELISA, IHC-Fr, IHC-P, WB Ms Hu, Rat, Shp 27969
- ADAM12 antibody - Aminoterminal end P WB Rb Hu 28225
- Kallikrein 7 antibody - Kallikrein loop P WB Rb Hu 28679
- VEGF Receptor 1 antibody [Y103] M ICC/IF, IHC-P, IP, WB Rb Ms, Ms 32152
- MMP3 antibody [4B7.3] M WB Ms Hu 38907
- MMP2 antibody P Flow Cyt, ICC/IF, IHC-P, IP, WB Rb Hu, Ms 52756
- MMP1 antibody P ELISA, WB Rb Ms, Ms, Rat 53142

**Metastasis**
- MCP1 antibody P IHC-P, WB Rb Ms, Rat 7202
- MC1 Receptor antibody P IHC-P Rb Ms 13033
- MITF antibody [21D1418] M WB Ms, Ms 13703
- SPARC antibody P ICC/IF, IHC-FoFr, WB Chk Ms, Ms, Rat 14071
- SNAID1 antibody P ChiP, ICC/IF, IHC-FoFr, IHC-P, IP, WB Rb Ms, Ms 17732
- SLUG antibody P IHC-Fr, IHC-P, WB Rb Ms, Chk 27568
- MMP9 antibody - Whole molecule P IHC-Fr, IHC-P, IP, WB Rb Ms, Ms 38898
- MSH alpha antibody P ICC/IF, IHC-Fr Rb Rat 43385
- RHOC antibody M WB Ms Hu 54837
- DCST1 antibody P WB Rb Ms 61308
- Twist antibody [mAbcam70275] M WB Ms Hu 70275
- MET antibody [4AT247] M ELISA, WB Ms Ms 71758

**Apoptosis**
- Survivin antibody P ICC/IF, IHC-P, IP, WB Rb Hu, Ms, Rat, Cat, Cow, Dog 469
- BCL2L1 antibody P IP, WB Rb Ms, Rat 2568
- Bcl2 antibody P IHC-P, IP, WB Rb Ms, Rat, Cow 7973
- Bax antibody P IHC-P, IP, WB Rb Ms, Rat, Shp 7977
- PUMA antibody P IHC-P, WB Rb Ms 9645
- Cytochrome C antibody [7H8.2C12] M WB Ms, Ms, Rat, Hrs, Pgn 13575
- Noxa antibody [114c307] M WB Ms Ms 13654
- Annexin V antibody P Flow Cyt, ICC/IF, IF, IHC-Fr, IP, WB Rb Ms, Ms, Rat 14196
- Caspase 1 antibody P ICC, IP, WB Rb Ms, Ms, Rat 17820
- XIAP antibody P IHC-P, WB Rb Ms 21278
- MCL1 antibody [Y37] M Flow Cyt, ICC, IHC-P, IP, WB Rb Ms 32087
- Caspase 3 antibody [E87] M IHC-Fr, IHC-P, IP, WB Rb Ms, Ms 32351
- Bad antibody [Y208] M Flow Cyt, ICC/IF, IHC-Fr, IP, WB Rb Ms, Ms 32445
- AIF antibody [E20] M Flow Cyt, ICC, IHC-P, IP, WB Rb Ms, Ms, Rat 32516
- Caspase 8 antibody P ELISA, IHC-P, WB Rb Ms, Ms, Rat 52183
- Caspase 12 antibody P ICC/IF, IHC-Fr, IHC-P, WB Rb Ms, Ms, Rat 62484

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