



Algorithm of IHC antibody panels

Part 2: Site-specific biomarker panel – Gynecologic neoplasms

Differential diagnosis	Most commonly used biomarkers
Endometrial carcinoma	PAX8 , ER , PR , MLH1 , MSH2 , MSH6 , PMS2 , PTEN
Endometroid carcinoma	WT1
Serous Carcinoma	WT1 , p53 , p16
Clear Cell Carcinoma	Napsin A, HNF1 β , WT1
Cervical carcinoma	p16 , HPV ISH
Adenocarcinoma	ER , PR , Vimentin, CEA
squamous cell carcinoma	p63, p40, PanCK
Ovarian carcinoma	PAX8 , CK7, CK20, ER , PR
Endometroid carcinoma	CK7, WT1
Serous Carcinoma	WT1 , p53 , p16 , Ki67
Clear Cell Carcinoma	Napsin A, HNF1 β , p53 , WT1
Mucinous	CDX2, SATB2, CEA
Germ Cell Tumors	SALL4 , AFP
Dysgerminoma	OCT3/4 , CD117, PLAP, Podoplanin (D2-40)
Yolk Sac Tumor	AFP, Glypican-3
Embryonal Carcinoma	CD30
Immature Teratoma	SALL4 , OCT3/4 , AFP, Glypican-3, CD30, CD117, PLAP, Podoplanin (D2-40)

Those **bolded** are the most commonly used biomarkers.



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Part 2: Site-specific biomarker panel – Gynecologic neoplasms

Differential diagnosis	Most commonly used biomarkers
Sex cord-stromal tumors	Inhibin-alpha, Calretinin, SF1, Melan A, S100B, Vimentin
Mesenchymal Tumors of the Uterus	ER , PR , PanCK
Leiomyoma/Leiomyosarcoma	Desmin, h-Caldesmon, ASMA, Ki67 , p16 , p53
Endometrial Stromal Sarcoma ESS	CD10, Cyclin D1, BCOR
Gestational trophoblastic disease	β -hCG, hPL, Ki67 , p57, Inhibin-alpha, p53
Vulvar Neoplasia	
Paget disease	CK7, GCDFP-15, HER2, CEA, MUC1, CK20, CDX2
Squamous Intraepithelial Lesions	p16 , p53 , CK5/6, Ki67

Gynecologic biomarkers

Most commonly used biomarkers	More biomarkers available from Sakura Finetek USA
ER , PAX8 , PR , Ki67 , MLH1 , MSH2 , MSH6 , PMS2 , p53 , p16 , SALL4 , OCT3/4 , WT1	ASMA, Calretinin, CDX2, CD10, CD30, CD117, CEA, CK5/6, CK7, CK20, Cyclin D1, GCDFP-15, Glypican-3, h-Caldesmon, HER2, Melan A, MUC1, Napsin A, Podoplanin (D2-40), p40, p63, PanCK, SATB2, S100B, Vimentin

Those **bolded** are the most commonly used biomarkers.