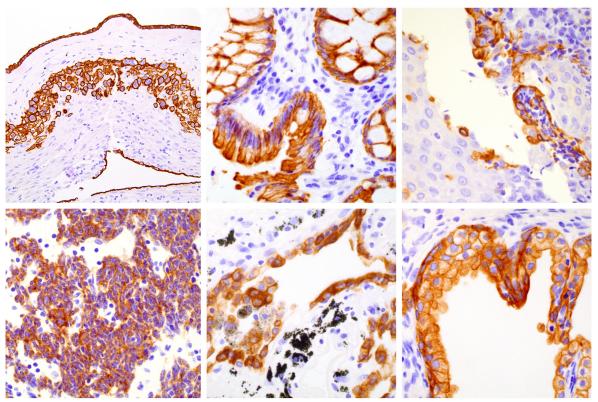
Cytokeratin (OSCAR clone)

Cytokeratin is an intermediate filament that forms the cytoskeleton. They are commonly divided based on molecular weight; high molecular weight (HMW) cytokeratins being expressed in basal cells and stratified epithelium (e.g. urothelium, skin) whereas low molecular weight (LMW) cytokeratins are primarily found in simple epithelium (mucosal lining cells, endocrine glands).

Positive control tissues: Skin, thymus, placenta

Vendor, Catalogue	Instrument	Detection	Antibody Concentration	Pre-treatment
Cell Marque,	Bondmax	Polymer Refine	1:50 for 20	Enzyme 3 for 10
CX255		kit, Vision DS9800	mins	mins



Applications:

The most widely used pan-keratin antibody is the AE1/AE3 cocktail. AE1 recognizes the acidic cytokeratins 10, 14, 15, 16, and 19, whereas AE3 recognizes the basic cytokeratins 1, 2, 3, 4, 5, 6, and 8. Both antibodies recognize a mixture of high- and low-molecular-weight cytokeratins. The OSCAR MAb demonstrates a broad spectrum of cytokeratin reactivity and potentially has somewhat broader cytokeratin coverage than does the AE1/AE3 cocktail, although this may be laboratory dependent.

	Positive	Negative	
Normal	Bile ducts, hepatocytes, bladder epithelium, breast	Superficial layers of squamous epithelium,	
	ducts, bronchial epithelium, endometrium,	brain, lymphocytes, hematolymphoid	
	follicular dendritic cells, epithelium of stomach,	cells, muscle, brain, nerves, endothelium	
	duodenum, ileum, colon, rectum, pancreas, ovarian		
	surface epithelium, pancreatic acini, pituitary acini,		
	pneumocytes, prostate, thyroid, basal layer of skin,		
	apocrine and sweat glands.		
Neoplastic	Breast CA, TCC, RCC, lung	Melanoma, sarcoma, lymphoma, PNET /	
	adeno CA, lung small cell CA, lung squamous cell	Ewings sarcoma, GIST	
	CA, endometrial CA, prostate		
	CA, ovarian CA, HCC, colorectal CA, stomach		
	CA, thyroid CA.		

References.
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Bahrami A, Gown AM, Baird GS, Hicks MJ, Folpe AL. Aberrant expression of epithelial and neuroendocrine markers in alveolar rhabdomyosarcoma: a potentially serious diagnostic pitfall. Mod Pathol. 2008 Jul;21(7):795-806. Epub 2008 May 16.