



Immunohistochemistry

One valuable application of immunohistochemistry is the characterization of neoplastic cells on the basis of specific surface, cytoplasmic, and/or nuclear protein expression. Immunohistochemistry may be recommended in tumors where cellular differentiation is insufficient to allow definitive diagnosis, and differential diagnoses include neoplasms with significantly different biological behaviors. Immunohistochemistry is an ancillary diagnostic technique and must always be interpreted in conjunction with morphologic features of neoplastic cells as well as in conjunction with the overall clinical picture. Frequently, a panel of antibodies is recommended for the interrogation of a particular neoplasm.

Cytokeratin

Vimentin

Smooth muscle actin

Myosin

CD20

CD18

CD79a

CD3

MelanA