

# Neural and Neuroendocrine Tumors

(Weedon Chapter 37)

Paul K. Shitabata, M.D.

Dermatopathology Institute

Useful stains to identify neural differentiation include all except:

- A. S100
- B. Synaptophysin
- C. Chromogranin
- D. Bodian
- E. Epithelial membrane antigen

Answer E

Characteristics of the malignant primitive neuroectodermal tumor include all except:

- A. Localized to the subcutis and dermis
- B. Extra-skeletal Ewing's sarcoma is considered a morphological variant
- C. Consistent translocation  $t(11;22)(q24;q12)$  identified
- D. CD99 positive
- E. Homer-Wright rosettes

# Answer A

- Most MPNET are situated in the deep soft tissue and only rarely involve the dermis or subcutis.

Immunohistochemical stains usually positive with Merkel cell carcinoma include all except:

- A. Chromogranin
- B. Cytokeratin 20
- C. S100
- D. Ber-EP4
- E. Synaptophysin

Answer C

Stains that are usually positive with Granular cell tumors include all except:

- A. S100
- B. PAS
- C. Neuron specific enolase
- D. Epithelial membrane antigen
- E. NKI/C-3



Answer D