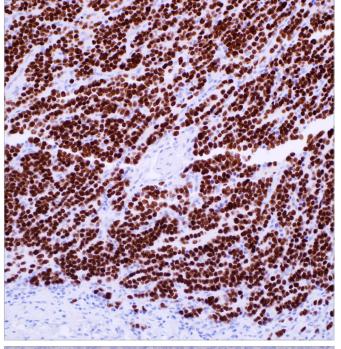
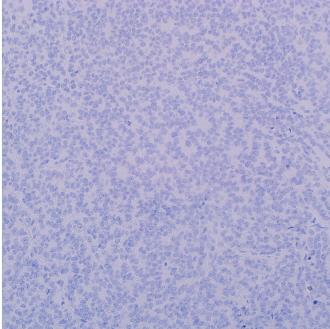
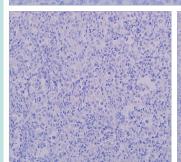
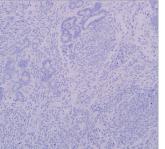
# Spotlight on:

# **PHOX2B (EP312)**

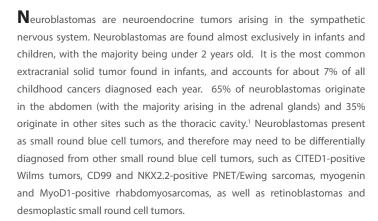












Paired-like homeobox 2B (PHOX2B) is a transcription factor expressed exclusively in the nervous system. Mutations in the PHOX2B gene have been linked to neuroblastoma development, and neuroblastomas immunohistochemically express the PHOX2B protein. Other small round blue cell tumors such as rhabdomyosarcoma, Ewing sarcoma, and Wilms tumor are negative for PHOX2B, suggesting that this is a valuable addition to a pediatric solid tumor panel.<sup>2</sup>

## **Benefits of Rabbit Monoclonal PHOX2B:**

- · For in vitro diagnostic use
- Nuclear PHOX2B expression distinguishes metastatic neuroblastoma from surrounding tissue, such as bone marrow, more definitively than cytoplasmic stains like synaptophysin.<sup>2</sup>
- Differentiates neuroblastoma from rhabdomyosarcoma, Ewing sarcoma, and Wilms tumor

#### **References:**

- 1. http://emedicine.medscape.com/article/988284-overview
- 2. Hata JL, Arch Pathol Lab Med. 2015; 139:543-6.

### **Photo Information:**

Top: PHOX2B is expressed strongly and diffusely in neuroblastoma.

Center: Ewing sarcoma is negative for PHOX2B.

Bottom-left: PHOX2B is negative in rhabdomyosarcoma.

Bottom-right: Wilms tumor does not express PHOX2B.

#### **Ordering Information:**

VolumePart No.	VolumePart No.
0.1 ml, concentrate 422R-14	1 ml, prediluted 422R-17
0.5 ml, concentrate 422R-15	7 ml, prediluted 422R-18
1 ml, concentrate 422R-16	Positive control slides 422S

 $Using \ RabMAb\ ^{\circ}\ technology\ from\ Abcam,\ PHOX2B\ has\ the\ sensitivity\ of\ a\ rabbit\ antibody\ with\ the\ specificity\ and\ clean liness\ of\ a\ monoclonal\ antibody\ for\ a\ strong\ signal\ to\ noise\ ratio.$ 



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