

# **Human HES-4 Antibody**

Monoclonal Mouse IgG<sub>2A</sub> Clone # 455237 Catalog Number: MAB3600

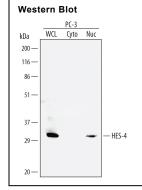
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human HES-4 in Western blots.
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 455237
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human HES-4 Val94-Arg221 Accession # Q9HCC6
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

## DATA



Detection of Human HES-4 by Western Blot. Western blot shows lysates of PC-3 human prostate cancer cell line. Gels were loaded with 30  $\mu g$  of whole cell lysate (WCL), 20  $\mu g$  of cytoplasmic (Cyto), and 10  $\mu g$  of nuclear extracts (Nuc). PVDF membrane was probed with 1  $\mu g/m$ L Mouse Anti-Human HES-4 Monoclonal Antibody (Catalog # MAB3600) followed by HRP-conjugated Anti-House IgG Secondary Antibody (Catalog # HAF007). A specific band for HES-4 was detected at approximately 32 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 4.

	PREPARATION AND STORAGE			
	Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.		
	Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.		

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

### Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## **BACKGROUND**

The Notch pathway maintains embryonic stem cells by up-regulation of HES and Hey basic helix-loop-helix family members, which repress tissue specific expression. HES-4 is up-regulated in gastric and colorectal cancers. It shares high homology with HES-1, HES-2, and HES-3.