

# Produktinformation



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Diagnostik & molekulare Diagnostik



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# Lieferung & Zahlungsart

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# HES6 (m): 293T Lysate: sc-120761



The Power to Question

#### **BACKGROUND**

The Drosophila hairy and enhancer of split genes encode basic helix-loophelix (bHLH) transcriptional repressors that function in the Notch signaling pathway and control segmentation and neural development during embryogenesis. The mammalian homologs of Drosophila hairy and enhancer of split are the HES gene family members, HES1-6, which also encode bHLH transcriptional repressors that regulate myogenesis and neurogenesis. The HES family members form a complex with TLE, the mammalian homolog of Groucho, and this interaction is mediated by the carboxy-terminal WRPW motif of the HES proteins. The HES/TLE complex functions by directly binding to DNA instead of interfering with activator proteins. Most HES family members, including HES1 and HES5, preferentially bind to the N box (CACNAG) as opposed to the E box (CANNTG). HES2 binds to both N and E box sites, while HES6 does not bind DNA. Rather, HES6 inhibits HES1 activity, thereby promoting transcription. HES1 and HES2 are expressed in a variety of adult and embryonic tissues. HES3 is expressed exclusively in cerebellar Purkinje cells, and HES5 is found solely in the nervous system. HES6 is produced in brain as well as in the limb buds of developing embryos.

### **REFERENCES**

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- Bae, S., Bessho, Y., Hojo, M. and Kageyama, R. 2000. The bHLH gene HES6, an inhibitor of HES1, promotes neuronal differentiation. Development 127: 2933-2943.

#### **CHROMOSOMAL LOCATION**

Genetic locus: Hes6 (mouse) mapping to 1 D.

#### **PRODUCT**

HES6 (m): 293T Lysate represents a lysate of mouse HES6 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

#### **APPLICATIONS**

HES6 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive HES6 antibodies. Recommended use: 10-20 µl per lane.

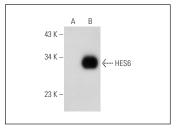
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

HES6 (F-5): sc-133196 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse HES6 expression in HES6 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

#### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

#### **DATA**



HES6 (F-5): sc-133196. Western blot analysis of HES6 expression in non-transfected: sc-117752 (A) and mouse HES6 transfected: sc-120761 (B) 293T whole cell Ivsates.

## **STORAGE**

Store at -20 $^{\circ}$  C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

### **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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