

# HSGT1 (RZ-17): sc-81860

## BACKGROUND

The *Drosophila* ecdysone (Ecd) protein is a steroid hormone that is responsible for the coordination of larval molting, embryogenesis and metamorphosis. Ecdysoneless1 (Ecd1) is a mutation in the *Drosophila* genome that disrupts the formation of Ecd, thus causing reproductive and developmental defects. HSGT1, also known as ECD (ecdysoneless homolog), hECD or SGT1 (suppressor of GCR2), is a 644 amino acid ortholog of the *Drosophila* Ecd1 protein. Expressed in heart and skeletal muscle, HSGT1 is thought to function as a p53-interacting protein that supports the stability and function of p53 and may regulate p53 expression.

## REFERENCES

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- Kainou, T., Shinzato, T., Sasaki, K., Mitsui, Y., Giga-Hama, Y., Kumagai, H. and Uemura, H. 2006. Spsgt1, a new essential gene of *Schizosaccharomyces pombe*, is involved in carbohydrate metabolism. *Yeast* 23: 35-53.

## CHROMOSOMAL LOCATION

Genetic locus: ECD (human) mapping to 10q22.1.

## SOURCE

HSGT1 (RZ-17) is a mouse monoclonal antibody raised against recombinant HSGT1 of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> lambda light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## RESEARCH USE

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

## APPLICATIONS

HSGT1 (RZ-17) is recommended for detection of HSGT1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for HSGT1 siRNA (h): sc-90628, HSGT1 shRNA Plasmid (h): sc-90628-SH and HSGT1 shRNA (h) Lentiviral Particles: sc-90628-V.

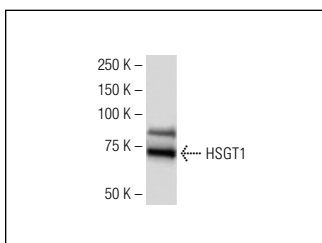
Molecular Weight of HSGT1: 73 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203 or HeLa whole cell lysate: sc-2200.

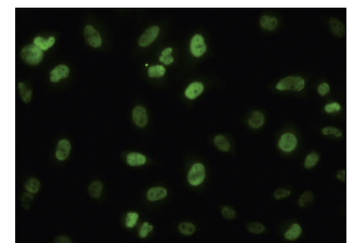
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGλ BP-HRP: sc-516132 or m-IgGλ BP-HRP (Cruz Marker): sc-516132-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGλ BP-FITC: sc-516185 or m-IgGλ BP-PE: sc-516186 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



HSGT1 (RZ-17): sc-81860. Western blot analysis of HSGT1 expression in K-562 whole cell lysate.



HSGT1 (RZ-17): sc-81860. Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing nuclear localization.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.