

# ET-3 (5E8): sc-81944

## BACKGROUND

The endothelin (ET) family of proteins are vasoactive peptides that are involved in various functions throughout the body. ET-3 (endothelin 3), also known as EDN3, is a 238 amino acid secreted protein that belongs to the endothelin family and is essential for proper neuronal development. Expressed in placental stem villi vessels and in trophoblasts, ET-3 functions as a ligand for endothelin receptor type B (ETBR) and, through this interaction, mediates the maturation of enteric neurons and melanocytes. Although ET-3 is expressed as a 238 amino acid peptide, it is posttranslationally modified to produce a short active isoform and a long inactive isoform. Defects in the gene encoding ET-3 are the cause of a variety of disorders, including Hirschsprung disease type 1 (HSCR1), congenital central hypoventilation syndrome (CCHS) and Waardenburg syndrome type IV (WS4).

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: EDN3 (human) mapping to 20q13.32.

## SOURCE

ET-3 (5E8) is a mouse monoclonal antibody raised against full-length recombinant ET-3 of human origin.

## PRODUCT

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

## APPLICATIONS

ET-3 (5E8) is recommended for detection of ET-3 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ET-3 siRNA (h): sc-45397, ET-3 shRNA Plasmid (h): sc-45397-SH and ET-3 shRNA (h) Lentiviral Particles: sc-45397-V.

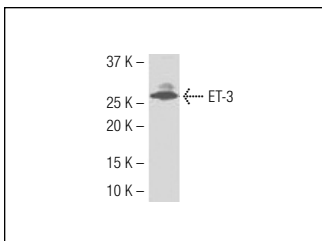
Molecular Weight of ET-3: 25 kDa.

Positive Controls: LNCaP cell lysate: sc-2231.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-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).

## DATA



ET-3 (5E8): sc-81944. Western blot analysis of ET-3 expression in LNCaP whole cell lysate.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. 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](http://www.scbt.com) for detailed protocols and support products.