

# Endo180 (H-300): sc-68371

## BACKGROUND

Endo180 (endocytic receptor 180), also known as macrophage mannose receptor C type 2 (MRC2), urokinase plasminogen activator receptor-associated protein (uPARAP) or CD280 antigen, is a ubiquitously expressed, type I membrane protein with predominant expression in fetal lung and kidney. The extracellular domain of Endo180 contains a fibronectin type II domain, eight C-type lectin domains and a cysteine-rich domain. Endo180 functions as a cell surface receptor and mediates collagen matrix remodeling as well as cell migration by playing a role in the uptake and lysosomal degradation of collagen. Endo180 can bind to gelatin and collagens I, II, IV and V. It may play a role in wound regeneration. In addition, Endo180 can form a complex with uPAR and pro-uPA, thereby partaking in a variety of cellular proteolytic and signaling functions. Endo180 participates in the destruction of connective tissue during the progression of head and neck squamous cell carcinoma.

## CHROMOSOMAL LOCATION

Genetic locus: MRC2 (human) mapping to 17q23.2; Mrc2 (mouse) mapping to 11 E1.

## SOURCE

Endo180 (H-300) is a rabbit polyclonal antibody raised against amino acids 1051-1350 mapping within an extracellular domain of Endo180 of human origin.

## PRODUCT

Each vial contains 200 µg IgG 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

Endo180 (H-300) is recommended for detection of endocytic receptor 180 of mouse, rat and 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Endo180 (H-300) is also recommended for detection of endocytic receptor 180 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Endo180 siRNA (h): sc-62276, Endo180 siRNA (m): sc-62277, Endo180 shRNA Plasmid (h): sc-62276-SH, Endo180 shRNA Plasmid (m): sc-62277-SH, Endo180 shRNA (h) Lentiviral Particles: sc-62276-V and Endo180 shRNA (m) Lentiviral Particles: sc-62277-V.

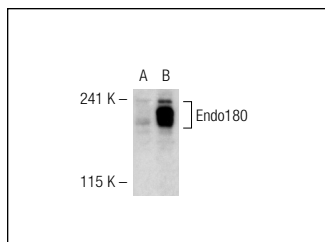
Molecular Weight of Endo180: 180 kDa.

Positive Controls: Endo180 (h): 293T Lysate: sc-112680 or Saos-2 cell lysate: sc-2235.

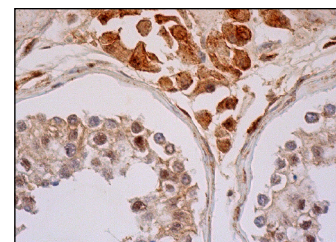
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



Endo180 (H-300): sc-68371. Western blot analysis of Endo180 expression in non-transfected: sc-117752 (A) and human Endo180 transfected: sc-112680 (B) 293T whole cell lysates.



Endo180 (H-300): sc-68371. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing cytoplasmic and nuclear staining of cells in seminiferous ducts and Leydig cells.

## 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) or our catalog for detailed protocols and support products.



Try **Endo180 (B-10): sc-271148**, our highly recommended monoclonal alternative to Endo180 (H-300).