

## Datasheet

### SLC5A5 monoclonal antibody, clone FP5 (PerCP)

**Catalog Number:** MAB11509

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against recombinant of SLC5A5.

**Clone Name:** FP5

**Immunogen:** Recombinant mannose fusion protein corresponding to amino acids 468-643 of human SLC5A5.

**Host:** Mouse

**Reactivity:** Human, Mouse, Rat

**Applications:** IF, IHC, WB

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Specificity:** Mapped to amino acids 625-643 of hNIS. Apparent mol. wt of 97 kD, non-glycosylated version at 68 kD. Other minor bands associated with hNIS at 160 kDa, and degradation products at ~30 kDa, and ~15kDa.

**Form:** Liquid

**Conjugation:** PerCP

**Purification:** Protein G purification

**Isotype:** IgG1, kappa

**Recommend Usage:** Immunofluorescence

Immunohistochemistry

Western blot (1:1000)

The optimal working dilution should be determined by the end user.

**Storage Buffer:** In PBS, pH 7.4 (50% glycerol)

**Storage Instruction:** Store at 4°C.

Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 6528

**Gene Symbol:** SLC5A5

**Gene Alias:** NIS

**Gene Summary:** This gene encodes a member of the sodium glucose cotransporter family. The encoded protein is responsible for the uptake of iodine in tissues such as the thyroid and lactating breast tissue. The iodine taken up by the thyroid is incorporated into the metabolic regulators triiodothyronine (T3) and tetraiodothyronine (T4). Mutations in this gene are associated with thyroid dysgenesis [1]