

NPSR1 / NPSR / GPR154 Antibody (Extracellular Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10632**Specification**

NPSR1 / NPSR / GPR154 Antibody (Extracellular Domain) - Product Information

Application	IHC-P
Primary Accession	Q6W5P4
Reactivity	Human, Mouse, Hamster, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43kDa KDa
Dilution	IHC-P~~N/A

NPSR1 / NPSR / GPR154 Antibody (Extracellular Domain) - Additional Information**Gene ID** 387129**Other Names**

Neuropeptide S receptor, G-protein coupled receptor 154, G-protein coupled receptor PGR14, G-protein coupled receptor for asthma susceptibility, NPSR1, GPR154, GPRA, PGR14

Target/Specificity

Human NPSR1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

NPSR1 / NPSR / GPR154 Antibody (Extracellular Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

NPSR1 / NPSR / GPR154 Antibody (Extracellular Domain) - Protein Information**Name** NPSR1**Synonyms** GPR154, GPRA, PGR14**Function**

G-protein coupled receptor for neuropeptide S (NPS) (PubMed:16790440). Promotes mobilization of intracellular Ca(2+) stores (PubMed:16790440). Inhibits cell growth in response to NPS binding (PubMed:15947423). Involved in pathogenesis of asthma and other IgE- mediated diseases.

Cellular Location

[Isoform 1]: Cell membrane; Multi-pass membrane protein [Isoform 4]: Cell membrane; Multi-pass membrane protein [Isoform 5]: Cytoplasm [Isoform 7]: Cytoplasm

Tissue Location

Isoform 4 is ubiquitous; it is detected in glandular epithelia of bronchus, stomach, small intestine, colon, uterus, esophagus, spleen, kidney, pancreas, prostate and breast. Isoform 1 is detected in uterus, colon and prostate, and in the smooth muscle cell layer in bronchial and arterial walls (at protein level) (PubMed:15947423). Isoform 1 is predominantly expressed in smooth muscle. Isoform 4 is predominantly expressed in epithelial cells. In bronchial biopsies, it is expressed in smooth muscle cells of asthma patients, but not in control patients; whereas in epithelial cells, its expression is consistently stronger in asthma patients.

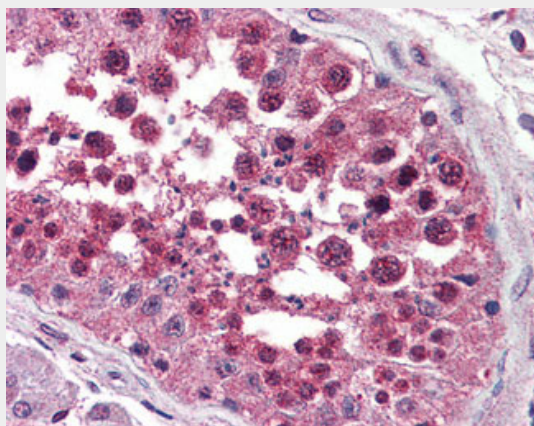
Volume

50 µl

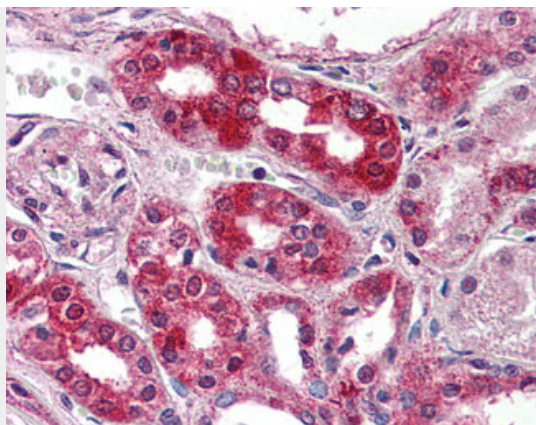
NPSR1 / NPSR / GPR154 Antibody (Extracellular Domain) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NPSR1 / NPSR / GPR154 Antibody (Extracellular Domain) - Images

Anti-NPSR1 antibody ALS10632 IHC of human testis.



Anti-NPSR1 antibody ALS10632 IHC of human kidney.

NPSR1 / NPSR / GPR154 Antibody (Extracellular Domain) - Background

G-protein coupled receptor for neuropeptide S (NPS) (PubMed:16790440). Promotes mobilization of intracellular Ca^{2+} stores (PubMed:16790440). Inhibits cell growth in response to NPS binding (PubMed:15947423). Involved in pathogenesis of asthma and other IgE-mediated diseases.

NPSR1 / NPSR / GPR154 Antibody (Extracellular Domain) - References

- Laitinen T., et al. Science 304:300-304(2004).
Vendelin J., et al. Am. J. Respir. Cell Mol. Biol. 33:262-270(2005).
Uebele V.N., et al. Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.