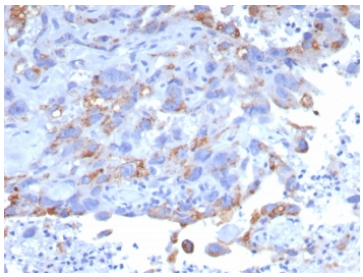
PEIG-1 Antibody / RAI3 / GPRC5A [clone GPRC5A/7893] (V4236)

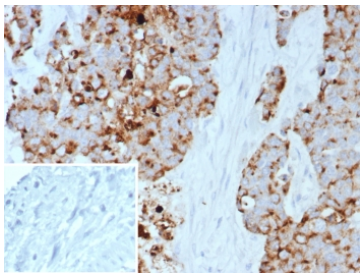
Catalog No.	Formulation	Size
V4236-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4236-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4236SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	GPRC5A/7893
Purity	Protein A/G affinity
UniProt	Q8NFJ5
Localization	Cell membrane, Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This PEIG-1 antibody is available for research use only.



IHC staining of FFPE human bladder tissue with PEIG-1 antibody (clone GPRC5A/7893). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human bladder carcinoma with PEIG-1 antibody (clone GPRC5A/7893). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

Retinoic acid-induced protein 3 (RAI3), also called Phorbol ester induced gene 1 (PEIG-1) and GPRC5A, is an transmembrane G protein-coupled receptor that affects many essential biological processes including embryogenesis, cell growth, differentiation, and apoptosis. PEIG-1 may also be involved in maintaining homeostasis of epithelial cells. Retinoic acid receptors directly regulate PEIG-1 during its transcription in embryonal carcinoma differentiation. PEIG-1 expression is upregulated in most tumor cell lines that express mutant p53, suggesting that p53 interacts with the promoter of PEIG-1 and represses its expression at the beginning of apoptosis. PEIG-1 is a potential molecular target for diagnosing breast cancer, and selective suppression of signals from PEIG-1 may have a place in breast cancer treatments.

Application Notes

Optimal dilution of the PEIG-1 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 200-357) from the human protein was used as the immunogen for the PEIG-1 antibody.

Storage

Aliquot the PEIG-1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com