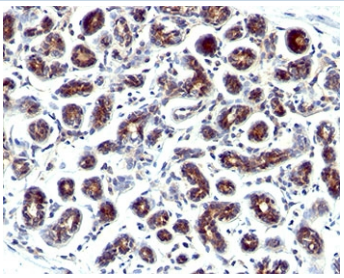
Estrogen Inducible Protein pS2 Antibody / TFF1 [clone GE2] (V2259)

Catalog No.	Formulation	Size
V2259-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2259-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2259SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
v2259IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

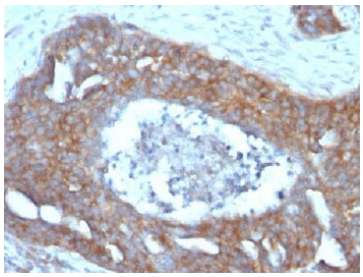
Citations (2)

Bulk quote request

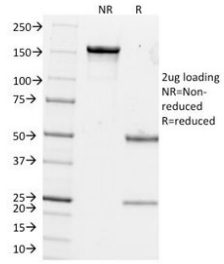
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	GE2
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	7031
Localization	Cytoplasmic, secreted
Applications	Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
Limitations	This **Estrogen Inducible Protein pS2 antibody** is available for research use only.



IHC staining of human breast cancer with Estrogen Inducible Protein pS2 antibody.



IHC testing of FFPE human ovarian carcinoma with Estrogen Inducible Protein pS2 antibody



SDS-PAGE Analysis of Purified, BSA-Free Estrogen Inducible Protein pS2 Antibody (clone GE2). Confirmation of Integrity and Purity of the Antibody.

Description

This antibody recognizes a polypeptide of ~6.5kDa, identified as Estrogen Inducible Protein pS2. The antibody's epitope is localized between amino acids 57-84. pS2 is a trefoil peptide. Trefoil peptides are protease resistant molecules secreted throughout the gut that play a role in mucosal healing. These peptides contain three intrachain disulfide bonds, forming the trefoil motif, or P-domain. Estrogen Inducible Protein pS2 is known to form dimers and this dimerization is thought to play a role in its protective and healing properties. About 60% of breast carcinomas are positive for estrogen inducible protein pS2. Staining is cytoplasmic, often with localization to the Golgi apparatus. It is shown to be localized in normal stomach mucosa, gastric fluid, goblet cells in the colon and small intestine, and in ulcerations of the gastrointestinal tract. Several studies have shown that estrogen inducible protein pS2 is primarily expressed in estrogen receptor-positive breast tumors and it may define a subset of estrogen-dependent tumors that displays an increased likelihood of response to endocrine therapy.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the Estrogen Inducible Protein pS2 antibody to be titered up or down for optimal performance.

1. Staining of FFPE tissues REQUIRES digestion with Pronase E at 1mg/ml in PBS for 15 min at 37oC. Heat Induced Epitope Retrieval is not suitable for this antibody.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Amino acids CFDDTVRGVPWCFYPNTIDVPPEEECEF (57-84) from the C-terminus of human Estrogen Inducible Protein pS2 was used as the immunogen for this antibody.

Storage

Store the Estrogen Inducible Protein pS2 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (1)