abcam

ab268241

Anti-Estrogen Inducible Protein pS2 antibody [TFF1/2133] - BSA and Azide free

Key facts

Isotype	IgG2b
Host species	Mouse
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Full Length Protein corresponding to Human TFF1. Database link P04155
Carrier free	Yes
Clone number	TFF1/2133
Purification technique	Affinity purification Protein A/G
Light chain type	kappa
Purification notes	Purified from Bioreactor concentrate

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1-2 µg for 10^6 Cells

Notes	-

Not recommended

Species	Recombinant full length protein - Human
Dilution info	-
Notes	-

Protein Array

Tested

Species	Recombinant full length protein - Human
Dilution info	-
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1-2 µg/mL
Notes	-

Not recommended

Species	Recombinant full length protein - Human
Dilution info	-
Notes	-

Target data

See full target information TFF1

Function	Stabilizer of the mucous gel overlying the gastrointestinal mucosa that provides a physical barrier against various noxious agents. May inhibit the growth of calcium oxalate crystals in urine.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

ab268241 is the carrier-free version of ab268118.
Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The Estrogen Inducible Protein pS2 also known as Trefoil Factor 1 (TFF1) is a small protein with a mass of about 6.6 kDa. It is mainly expressed in the mucosa of the stomach and other tissues responsive to estrogen. pS2 functions mechanically as part of the trefoil factor family known for its role in mucosal protection and repair. pS2 has a distinctive three-loop structure which is key to its interaction with other molecules and substrates in the cellular environment.

Biological function summary	This trefoil factor plays a significant role in the process of epithelial regeneration and maintaining gastrointestinal tract integrity. It is not known to be part of a complex but works through interaction with various growth factors and cytokines. Its expression is regulated by estrogen making pS2 significant in estrogen-responsive tissues. These interactions contribute to maintaining the stability of epithelial lining aiding in cellular migration and wound healing.
Pathways	PS2 influences cellular signaling involved in the gastric mucosal defense mainly interacting with the Epidermal Growth Factor (EGF) pathway. It modulates the pathway's effects on cell proliferation and migration. Its role is linked to the mitigation of tissue damage indicating a connection with other proteins like the EGF receptor contributing to the repair and defense mechanisms of epithelial tissues.
Associated diseases and disorders	PS2 has gained attention in breast cancer research. Its expression correlates with hormone receptor-positive breast cancer making it a potential biomarker for the disease. Additionally aberrant expression levels of pS2 might relate to gastric cancer where it plays a role in tumor progression and response to therapy. pS2 is closely connected to estrogen receptor proteins which guide its involvement in these cancers influencing prognosis and treatment strategies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

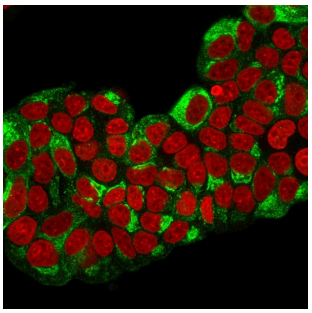
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

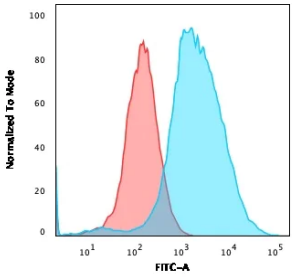
4 product images



Immunocytochemistry/ Immunofluorescence - Anti-Estrogen Inducible Protein pS2 antibody [TFF1/2133] - BSA and Azide free (ab268241)

Estrogen Inducible Protein pS2 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-Estrogen Inducible Protein pS2 antibody

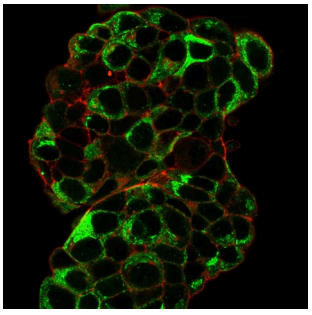
Immunofluorescent analysis of paraformaldehyde-fixed MCF7 cells labeling Estrogen Inducible Protein pS2 with ab268118 at 2 µg/ml (Green). The secondary antibody is a Goat anti-mouse IgG CF488 conjugate. Membrane are labeled with phalloidin (Red).
This data was deveolped using the same antibody clone in a different buffer formulation containing PBS, BSA and Sodium azide (ab268118).



Flow Cytometry - Anti-Estrogen Inducible Protein pS2 antibody [TFF1/2133] - BSA and Azide free (ab268241)

Estrogen Inducible Protein pS2 Flow Cytometry staining using mouse Anti-Estrogen Inducible Protein pS2 antibody

Flow cytometric analysis of PFA-fixed MCF7 cells cells labeling Estrogen Inducible Protein pS2 with ab268118 at 2 µg/10^6 cells (Blue) compared with an Isotype control (Red). The secondary antibody was a Goat anti-mouse IgG CF488 conjugate.
This data was deveolped using the same antibody clone in a different buffer formulation containing PBS, BSA and Sodium azide (ab268118).

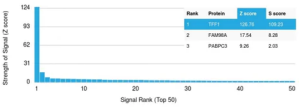


Immunocytochemistry/ Immunofluorescence - Anti-Estrogen Inducible Protein pS2 antibody [TFF1/2133] - BSA and Azide free (ab268241)

Estrogen Inducible Protein pS2 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-Estrogen Inducible Protein pS2 antibody

Immunofluorescent analysis of paraformaldehyde-fixed MCF7 cells labeling Estrogen Inducible Protein pS2 with ab268118 at 2 µg/ml (Green). The secondary antibody is a Goat anti-mouse IgG CF488 conjugate. Membrane are labeled with phalloidin (Red).

This data was deveolped using the same antibody clone in a different buffer formulation containing PBS, BSA and Sodium azide (ab268118).



Protein Array - Anti-Estrogen Inducible Protein pS2 antibody [TFF1/2133] - BSA and Azide free (ab268241)

Protein Array containing more than 19,000 full-length human proteins using ab268118.
Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard

deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

This data was deveolped using the same antibody clone in a different buffer formulation containing PBS, BSA and Sodium azide (ab268118).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.