pS2 / pNR-2 / TFF1 (Estrogen-Regulated Protein) Antibody

Mouse Monoclonal Antibody [Clone TFF1/2133]

Catalog No	Format	Size
7031-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7031-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7031-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

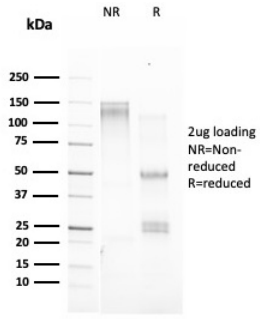
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

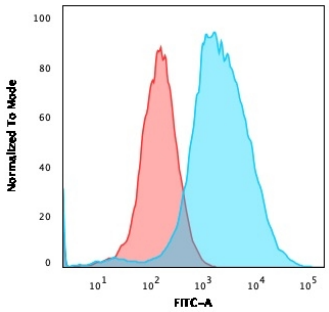
Clone	TFF1/2133
Gene Name	TFF1
Immunogen	Recombinant full-length human TFF1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	6.5kDa
Cellular Localization	Secreted
Species Reactivity	Human
Positive Control	MCF-7 cells; Breast or Ovarian carcinoma.

**Optimal dilution for a specific application should be determined.*

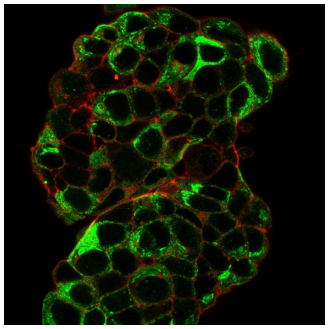
Product Images for pS2 / pNR-2 / TFF1 (Estrogen-Regulated Protein) Antibody



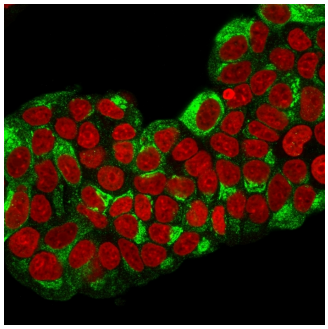
SDS-PAGE Analysis Purified TFF1/ps2 Mouse Monoclonal Antibody (TFF1/2133). Confirmation of Purity and Integrity of Antibody.



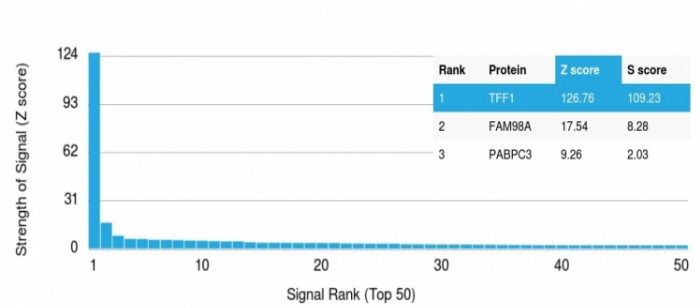
Flow Cytometric Analysis of PFA-fixed MCF-7 cells using TFF1/pS2 Mouse Monoclonal Antibody (TFF1/2133) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Immunofluorescence staining of paraformaldehyde-fixed MCF-7 cells with TFF1/pS2 Mouse Monoclonal Antibody (TFF1/2133) followed by goat anti-Mouse IgG-CF488 (Green). Membrane are labeled with phalloidin (Red).

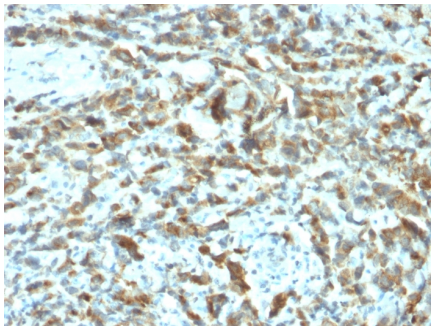


Immunofluorescence staining of paraformaldehyde-fixed MCF-7 cells with TFF1/pS2 Mouse Monoclonal Antibody (TFF1/2133) followed by goat anti-Mouse IgG-CF488 (Green). Nucleus is labeled with Reddot(Red).



Rank	Protein	Z score	S score
1	TFF1	126.76	109.23
2	FAM98A	17.54	8.28
3	PABPC3	9.26	2.03

Analysis of Protein Array containing more than 19,000 full-length human proteinsusing TFF1/pS2 Mouse Monoclonal Antibody (TFF1/2133). 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 HuProtTM array. Z-scores are described in units of standard deviations (SD?s) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD?s) 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.



Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with TFF1/pS2 Mouse Monoclonal Antibody (TFF1/2133).

Specificity & Comments

It recognizes a polypeptide of 6.5kDa, identified as pS2 estrogen-regulated protein. Its epitope is located in the c-terminus of human pS2 protein. 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 intra-chain disulfide bonds, forming the trefoil motif, or P-domain. 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 pS2. Staining is cytoplasmic, often with localization to the Golgi apparatus. pS2 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 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.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Signal Transduction

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.