

Anti-Fibroblast Activation Protein alpha Antibody [FAP/4853] (A277595)

Specifications:

Name:	Anti-Fibroblast Activation Protein alpha Antibody [FAP/4853]
Description:	Mouse monoclonal [FAP/4853] antibody to Fibroblast Activation Protein alpha.
Specificity:	FAP (fibroblast activation protein) is a cell surface glycoprotein and serine protease that is expressed primarily in fetal mesenchymal tissues and epithelial cancer fibroblasts. In cancer, FAP functions to promote cellular proliferation. In embryonic development, FAP functions to remodel developing tissues. FAP acts as an integral membrane gelatinase composed of N-glycosylated proteolytically inactive subunits. FAP expression on chondrocyte membranes is upregulated by the combination of the cytokines IL-1 and OSM and has been shown to increase in osteoarthritic patients. This expression is colocalized with MMP-1 and MMP-13 as well as CD44 (variants v3 and v7/8). Mice that lack all copies of the FAP gene have been found to be fertile and to have developmental defects or change in cancer susceptibility.
Applications:	IHC-P
Recommended Dilutions:	IHC-P: 1-2 µg/ml
Reactivity:	Human
Immunogen:	Recombinant fragment, around amino acids 1-200, of human Fibroblast Activation Protein alpha. The exact sequence is proprietary.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	FAP/4853
Isotype:	IgG2c
Light Chains:	kappa
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 µg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

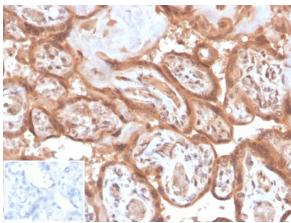
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Specifications continued:

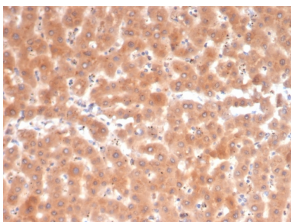
General Notes: This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-Fibroblast Activation Protein alpha Antibody [FAP/4853] - BSA and Azide free (A278183).

Disclaimer: This product is for research use only. It is not intended for diagnostic or therapeutic use.

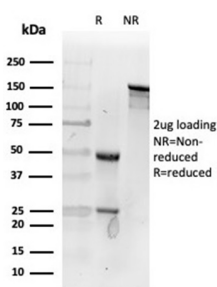
Images:



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human placenta tissue using Anti-Fibroblast Activation Protein alpha Antibody [FAP/4853]. Inset: PBS instead of the primary antibody. Secondary antibody negative control.



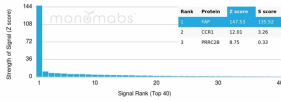
Immunohistochemical analysis of formalin-fixed, paraffin-embedded human liver tissue using Anti-Fibroblast Activation Protein alpha Antibody [FAP/4853].



SDS-PAGE analysis of Anti-Fibroblast Activation Protein alpha Antibody [FAP/4853] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.

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Images continued:



Analysis of protein array containing more than 19,000 full-length human proteins using Anti-Fibroblast Activation Protein alpha Antibody [FAP/4853]. Z-Score 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 (SD's) 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 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 be 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.