Product Datasheet

Fibroblast Activation Protein Alpha Antibody / FAP (orb2635504)

Description	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.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	IHC-P
Immunogen	A portion of amino acids 1-200 was used as the immunogen for the Fibroblast Activation Protein Alpha antibody.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the Fibroblast Activation Protein Alpha antibody should be determined by the researcher.
Formula	1 mg/ml in 1X PBS; BSA free, sodium azide free
Isotype	Mouse IgG2c, kappa

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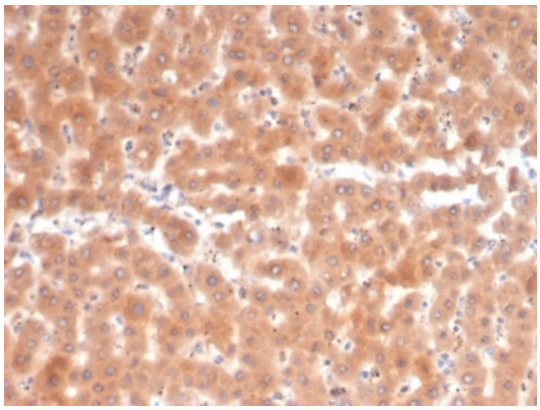
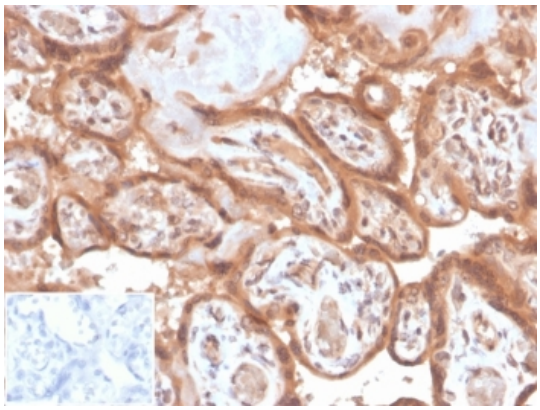
Clonality	Monoclonal
Clone Number	FAP/4853
Antibody Type	Primary Antibody
Uniprot ID	**Q12884**
Hazard Information	This Fibroblast Activation Protein Alpha antibody is available for research use only.
Dilution Range	Immunohistochemistry (FFPE): 1-2ug/ml
Expiration Date	12 months from date of receipt.



IHC staining of FFPE human liver tissue with Fibroblast Activation Protein antibody (clone FAP/4853). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human placental tissue with Fibroblast Activation Protein Alpha antibody (clone FAP/4853). Negative control inset: PBS instead of primary antibody to control for secondary binding. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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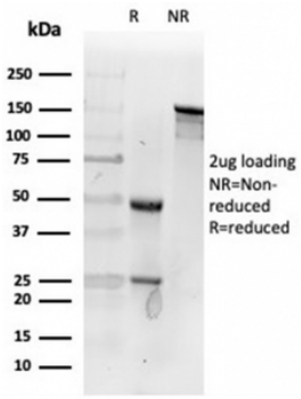
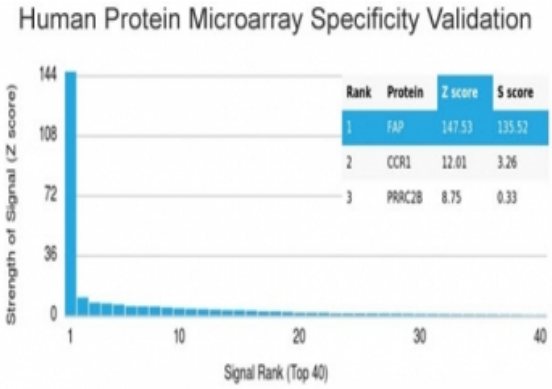


SDS-PAGE analysis of purified, BSA-free Fibroblast Activation Protein Alpha antibody (clone FAP/4853) as confirmation of integrity and purity.



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using Fibroblast Activation Protein Alpha antibody (clone FAP/4853). These results demonstrate the foremost specificity of the FAP/4853 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

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