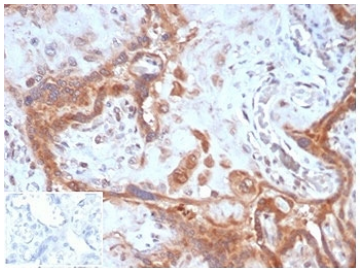
Fibroblast Activation Protein Alpha Antibody / FAP [clone FAP/4851] (V9470)

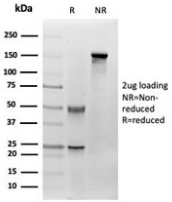
Catalog No.	Formulation	Size
V9470-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9470-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9470SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

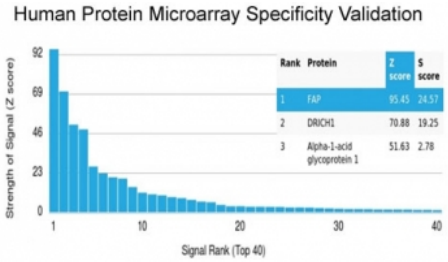
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2c, kappa
Clone Name	FAP/4851
Purity	Protein A/G affinity
UniProt	Q12884
Localization	Cell surface, Cell membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Fibroblast Activation Protein Alpha antibody is available for research use only.



IHC staining of FFPE human placental tissue with Fibroblast Activation Protein Alpha antibody (clone FAP/4851). Negative control inset: PBS instead of primary antibody to control for secondary binding. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Fibroblast Activation Protein Alpha antibody (clone FAP/4851) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Fibroblast Activation Protein Alpha antibody (clone FAP/4851). These results demonstrate the foremost specificity of the FAP/4851 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.

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.

Application Notes

Optimal dilution of the Fibroblast Activation Protein Alpha antibody should be determined by the researcher.

Immunogen

A portion of amino acids 1-200 was used as the immunogen for the Fibroblast Activation Protein Alpha antibody.

Storage

Aliquot the Fibroblast Activation Protein Alpha antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.