Fibroblast Activation Protein Alpha / FAP-1 Antibody

Mouse Monoclonal Antibody [Clone FAP/4851]

Catalog No	Format	Size
2191-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2191-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2191-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

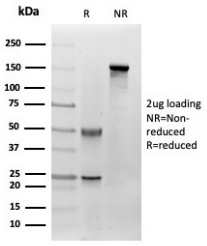
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

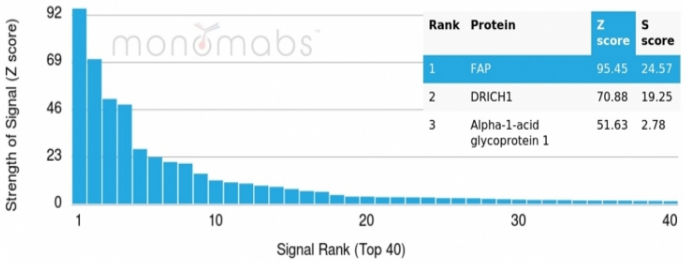
Clone	FAP/4851
Gene Name	FAP
Immunogen	Recombinant fragment (around aa 1-200) of human FAP protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2c / Kappa
Mol. Weight of Antigen	88kDa
Cellular Localization	Cell membrane, Cell projection, Cell surface, Cytoplasm, Invadopodium membrane, Lamellipodium membrane, Membrane, Ruffle membrane, Secreted
Species Reactivity	Human
Positive Control	colon or pancreas. Fibroblast specific., Human uterus

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

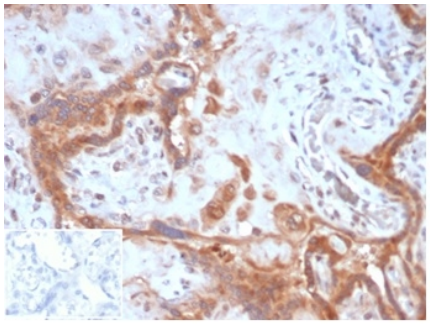
Product Images for Fibroblast Activation Protein Alpha / FAP-1 Antibody



SDS-PAGE Analysis of Purified FAP Mouse Monoclonal Antibody (FAP/4851). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing Fibroblast Activation Protein Mouse Monoclonal Antibody (FAP/4851). 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 placenta stained with Fibroblast Activation Protein Mouse Monoclonal Antibody (FAP/4851). Inset: PBS instead of primary antibody, secondary only negative control.

Specificity & Comments

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.

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.

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.