Human Fibroblast Activation Protein α/FAP Biotinylated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: BAF3715

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Fibroblast Activation Protein α/FAP in ELISAs and Western blots. In sandwich immunoassays, less than 0.2% cross-reactivity with recombinant human DPPIV is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human Fibroblast Activation Protein α/FAP Leu26-Asp760 Accession # Q12884
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

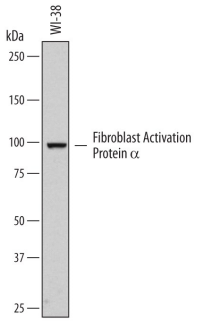
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Human Fibroblast Activation Protein α/FAP Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	Human Fibroblast Activation Protein α/FAP Antibody (Catalog # MAB3715)
ELISA Detection	0.1-0.4 µg/mL	Human Fibroblast Activation Protein α/FAP Biotinylated Antibody (Catalog # BAF3715)
Standard		Recombinant Human Fibroblast Activation Protein α/FAP (Catalog # 3715-SE)

DATA

Western Blot



Detection of Human Fibroblast Activation Protein α/FAP by Western Blot. Western blot shows lysates of WI-38 human lung fibroblast cell line. PVDF membrane was probed with 0.5 µg/mL of Sheep Anti-Human Fibroblast Activation Protein α/FAP Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF3715) followed by Streptavidin-HRP (Catalog # DY998). A specific band was detected for Fibroblast Activation Protein α/FAP at approximately 97 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

FAP (also known as seprase) is a Type II transmembrane serine protease that is structurally related to dipeptidyl peptidase IV (1). FAP has substrate specificity similar to dipeptidyl peptidase IV, which is specific for N-terminal Xaa-Pro sequences, but FAP is also an endopeptidase able to degrade gelatin and Type I collagen (2). The enzymatically active form of FAP is a dimer (3). FAP has a restricted tissue distribution. It is not detectable in normal tissues or resting fibroblasts, but is highly expressed on reactive stromal fibroblasts in epithelial cancers (4), in granulation tissue during wound healing, and in bone and soft tissue sarcomas (5). Because of its expression patterns and enzymatic activities, FAP is believed to play roles in tumor invasion, tissue remodeling, and wound repair.

References:

1. Scanlan, M.J. *et al.* (1994) Proc. Natl. Acad. Sci. USA **91**:5657.
2. Park, J.E. *et al.* (1999) J. Biol. Chem. **274**:36505.
3. Pineiro-Sanchez, M.L. *et al.* (1997) J. Biol. Chem. **272**:7595.
4. Garin-Chesa, P. *et al.* (1990) Proc. Natl. Acad. Sci. USA **87**:7235.
5. Rettig, W.J. *et al.* (1988) Proc. Natl. Acad. Sci. USA **85**:3110.

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