Cancer Associated Fibroblast Marker Antibody Kit K2006



Contains Product	Specification	Applications	Species reactivity	MW(kDa)
PDGFR alpha[ET1702-49] alpha smooth muscle Actin[ET1607-53]	20μ1 20μ1	W B,1F - Cell,1H C - P,FC,1F - Tissue W B,1F - Cell,1F - Tissue,1H C - P,FC,m1H C	H , M , R H , M , R	123 k D a 42 k D a
PDGF Receptor beta[ET1605-20] S100 beta[ET1610-3]	2 0 µ 1 2 0 µ 1	W B,1 H C - P, I P, F C, I F - Tissue, I F - Cell W B,1 F - Cell, I F - Tissue, I P, I H C - P, I H C - Fr	H , M , R H , M , Z , R	123 k D a 11 k D a
F A P [E T 1 7 0 4 - 2 3] S 1 0 0 A 4 [E T 1 6 1 2 - 1 3]	20μ1 20μ1	W B, I H C - P, m I H C W B, I F - Cell, I F - Tissue, I H C - P, I P, F C	н н,м	88 k D a 12 k D a
HRP-Alpaca anti-Rabbit IgG Fc, Recombinant VHH		IP, ELISA, IHC-P, WB	Rab	
Description:	The Cancer Associated Fibroblast Marker Antibody Sampler Kit provides a			
	economical means of detecting proteins reported to be expressed in Cance			
	Associated Fibroblasts (CAFs). The kit includes enough antibodies to perform two			
	western blot experiment	s with each primary and	tibody.	
Storage Buffer:	1*TBS (pH7.4), 0.05% B	SA, 40% Glycerol. Pres	ervative: 0.05% Sodiur	n Azide.
Storage Instruction:	Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.			
Background	The tumor microenviron tumor initiation, develoy fibroblasts have been su During tumor developmed prominent in the TME a promotes pro-tumorige populations are kn Fibroblasts).PDGFR α a identification. α -Smooth some reports suggest i 1/S100A4 is expressed suggest it to be a marked or FAP as it is more of tissue repair, fibrosis, a been described as a use of a mesenchymal pheno	pment, and metastasis aggested to play a key ent, a subpopulation of nd secretion of cytokin enic activity. These own collectively nd PDGFR β are com a Muscle Actin is wide it is not expressed by by cells of mesence er for quiescent fibrob commonly known, has nd extracellular matrix	Amongst all these va role in tumor developm f hyper-activated fibrol nes and chemokines fro highly heterogeneou as CAFs (Cancer mon markers used f ely used to identify CA all functionally activ chymal origins. Some lasts. Fibroblast Activ traditionally been as degradation. FAP has	arious factors ment. blasts become om these cells us fibroblas Associated for fibroblas AFs, howeven e CAFs. FSP reports even ation Protein sociated with more recently

Database links:UniProtID: P16234, P26618, P20786, P62736, P62737, P62738, P05622, P09619,
Q05030, P04271, P50114, P04631, Q12884, P26447, P07091, P05942

Hangzhou Huaan Biotechnology Co., Ltd.

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Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of PDGFR alpha on different lysates with Rabbit anti-PDGFR alpha antibody (ET1702-49) at 1/500 dilution.

Lane 1: NIH/3T3-si NT cell lysate Lane 2: NIH/3T3-si PDGFR alpha cell lysate

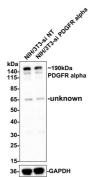
Lysates/proteins at 10 µg/Lane.

Predicted band size: 123 kDa Observed band size: 190 kDa

Exposure time: 2 minutes;

4-20% SDS-PAGE gel.

ET1702-49 was shown to specifically react with PDGFR alpha in Hela-si NT cells. Weakened band was observed when Hela-si PDGFR alpha sample was tested. Hela-si NT and Hela-si PDGFR alpha samples were subjected to SDS-PAGE. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM in TBST for 1 hour at room temperature. The primary antibody (ET1702-49, 1/500) and Loading control antibody (Rabbit anti-GAPDH, ET1601-4, 1/10,000) were used in 5% BSA at room temperature for 2 hours. Goat Anti-rabbit IgG-HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.



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Fig2: Western blot analysis of alpha smooth muscle Actin on different lysates with Rabbit anti-alpha smooth muscle Actin antibody (ET1607-53) at 1/1,000 dilution.

Lane 1: Hela-si NT cell lysate Lane 2: Hela-si alpha smooth muscle Actin cell lysate

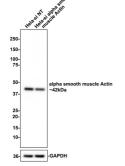
Lysates/proteins at 10 µg/Lane.

Predicted band size: 42 kDa Observed band size: 42 kDa

Exposure time: 5 seconds;

4-20% SDS-PAGE gel.

ET1607-53 was shown to specifically react with alpha smooth muscle Actin in Hela-si NT cells. Weakened band was observed when Hela-si alpha smooth muscle Actin sample was tested. Hela-si NT and Hela-si alpha smooth muscle Actin samples were subjected to SDS-PAGE. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM in TBST for 1 hour at room temperature. The primary antibody (ET1607-53, 1/1,000) and Loading control antibody (Rabbit anti-GAPDH, ET1601-4, 1/10,000) were used in 5% BSA at room temperature for 2 hours. Goat Anti-rabbit IgG-HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.



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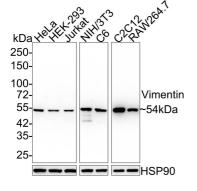


Fig3: Western blot analysis of Vimentin on different lysates with Rabbit anti-Vimentin antibody (ET1610-39) at 1/20,000 dilution.

Lane 1: HeLa cell lysate (10 µg/Lane) Lane 2: HEK-293 cell lysate (10 µg/Lane) Lane 3: Jurkat cell lysate (10 µg/Lane) Lane 4: NIH/3T3 cell lysate (10 µg/Lane) Lane 5: C6 cell lysate (10 µg/Lane) Lane 6: C2C12 cell lysate (10 µg/Lane) Lane 7: RAW264.7 cell lysate (10 µg/Lane)

Predicted band size: 54 kDa Observed band size: 54 kDa

Exposure time: Lane 1-5: 3 seconds; Lane 6-7: 14 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1610-39) at 1/20,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:50,000 dilution was used for 1 hour at room temperature.

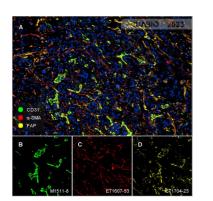


Fig4: Fluorescence multiplex immunohistochemical analysis of the human pancreatic carcinoma (Formalin/PFA-fixed paraffin-embedded sections). Panel A: the merged image of anti-CD31 (M1511-8, green), anti-a-SMA (ET1607-53, red) and anti-FAP (ET1704-23, yellow) on human pancreatic carcinoma. Panel B: anti- CD31 stained on the endothelial cells. Panel C: anti-a-SMA stained on cancer-associated fibroblasts and smooth muscle cells. Panel D: anti-FAP stained on the cancer-associated fibroblasts. HRP Conjugated UltraPolymer Goat Polyclonal Antibody HA1119/HA1120 was used as a secondary antibody. The immunostaining was performed with the Sequential Kit Immuno-staining (IRISKit[™]MH010101, www.luminiris.cn). The section was incubated in three rounds of staining: in the order of M1511-8 (1/5000 dilution), ET1704-23 (1/1000 dilution), and ET1607-53 (1/3000 dilution) for 20 mins at room temperature. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95°C. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Nikon ECLIPSE Ni-E microscope.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- 1. LeBleu, V.S. and Kalluri, R. (2018) Dis Model Mech 11, pii: dmm029447. doi: 10.1242/dmm.029447.
- 2. Nurmik, M. et al. (2019) Int J Cancer, doi: 10.1002/ijc.32193.

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