

FAS Monoclonal Antibody (4F8H6)

Catalog Number **MA5-17073**

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Published species	Human
Class	Monoclonal	Tested Applications	
Type	Antibody	ELISA (ELISA)	1:10,000
Clone	4F8H6	Flow Cytometry (Flow)	1:200-1:400
Immunogen	Purified recombinant fragment of human FAS expressed in E. Coli.	Western Blot (WB)	1:500-1:2,000
Conjugate	Unconjugated	Immunocytochemistry (ICC/IF)	1:200-1:1,000
Form	Liquid	Published Applications	
Concentration	1 mg/mL	Flow Cytometry (Flow)	See 1 publications below
Purification	Protein G	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage buffer	PBS		
Contains	0.05% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

MA5-17073 targets FAS in indirect ELISA, FACS, ICC, IF and WB applications and shows reactivity with Human samples. The MA5-17073 immunogen is purified recombinant fragment of human FAS expressed in E. Coli. MA5-17073 detects FAS which has a predicted molecular weight of approximately 37.7kDa.

Background/Target Information

FAS (Fas, CD95, APO-1) is a 46 kDa transmembrane glycoprotein that functions as a cell death receptor of the TNFR (tumor necrosis factor receptor) superfamily. FAS also exists in a soluble form that weight approximately 26kDa. Stimulation of FAS results in aggregation of its intracellular FAS-associated death domains (FADD), formation of the death-inducing signaling complex (DISC) and activation of caspases. The auto-proteolytic processing of the caspases in the complex trigger a downstream cascade that leads to apoptosis. FAS has been shown to activate NF-kappaB, MAPK3/ERK1, MAPK8/JNK, and is involved in transducing the proliferating signals in normal diploid fibroblast and T cells. At least eight alternatively spliced transcript variants encoding seven distinct isoforms have been described. The isoforms lacking the transmembrane domain may negatively regulate the apoptosis mediated by the full-length isoform. The Fas/Fas ligand system has been shown to play a role in a number of human diseases such as AIDS, hepatitis and cancer. It is also assumed that induction of apoptosis through FAS ligand pathway is predominantly involved in anti-viral immune responses.

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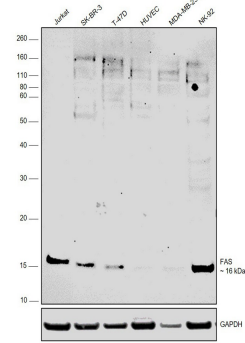
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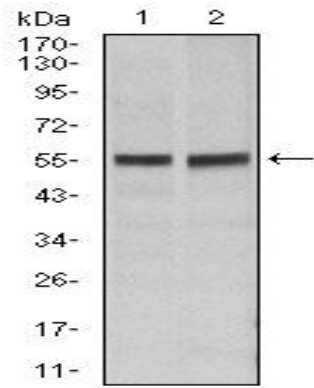
FAS Antibody (MA5-17073) in WB

Western Blot was performed using Anti-FAS Monoclonal Antibody (4F8H6) (Product # MA5-17073) and a 16 kDa band corresponding to an isoform of FAS (Tumor necrosis factor receptor superfamily member 6) was observed across cell lines tested except in HUVEC and MDA-MB-231 which are reported low expressing for the protein. Whole cell extracts (40 µg lysate) of Jurkat (Lane 1), SK-BR-3 (Lane 2), T-47D (Lane 3), HUVEC (Lane 4), MDA-MB-231 (Lane 5), NK-92 (Lane 6) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0301BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1500 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:10000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076).



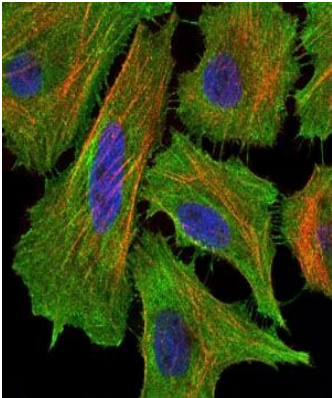
FAS Antibody (MA5-17073) in WB

Western blot analysis of CD95/Fas using CD95/Fas monoclonal antibody (Product # MA5-17073) in HeLa (1), Jurkat (2) cell lysate.



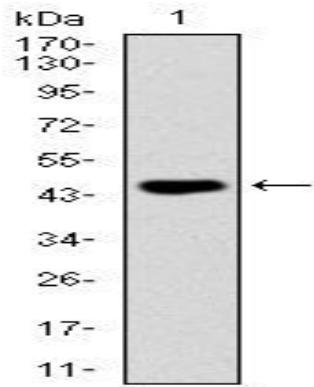
FAS Antibody (MA5-17073) in ICC/IF

Immunofluorescence analysis of HeLa cells using CD95/Fas monoclonal antibody (Product # MA5-17073) (Green). Blue: DRAQ5 fluorescent DNA dye. Red: actin filaments have been labeled with phalloidin.



FAS Antibody (MA5-17073) in WB

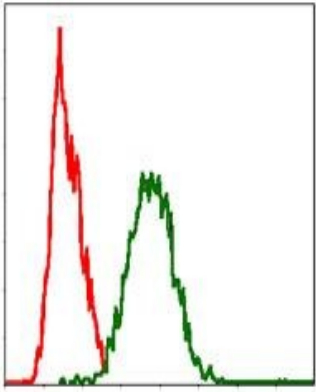
Western blot analysis of CD95/Fas using a CD95/Fas monoclonal antibody (Product # MA5-17073) against a human FAS (AA: 87-278) recombinant protein.



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FAS Antibody (MA5-17073) in Flow

Flow cytometric analysis of HeLa cells using CD95/Fas monoclonal antibody (Product # MA5-17073) (green) and negative control (red).

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PubMed References For FAS Monoclonal Antibody (4F8H6)

1 Flow Cytometry References

Species / Dilution	Summary
Human / 1:150	<p>MA5-17073 was used in Flow cytometry/Cell sorting to explore whether the regulation of tumor specific promoters and a two-step transcriptional amplification system assured efficient, targeted expression of their downstream Fas gene in human ovarian cancer cells, and to assess the killing effect of T cells on these cells with high Fas expression.</p> <p>Molecular medicine reports (2017; 16: 3791)</p> <p>"Gene therapy for human ovarian cancer cells using efficient expression of Fas gene combined with T cells."</p> <p>Author(s):Lin J,Zeng D,He H,Tan G,Lan Y,Jiang F,Sheng S</p> <p>PubMed Article URL:http://dx.doi.org/10.3892/mmr.2017.7107</p>

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