

## Fumarase Mouse Monoclonal Antibody(7F1)

Catalog No: #38030

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

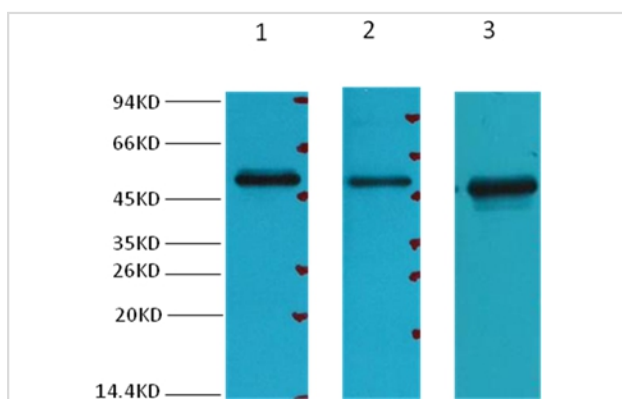
Product Name	Fumarase Mouse Monoclonal Antibody(7F1)
Host Species	Mouse
Clonality	Monoclonal
Clone No.	7F1
Purification	Affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Hu Rt Ms
Specificity	FH Mouse Monoclonal antibody detects endogenous FH proteins.
Target Name	Fumarase
Other Names	FH; Fumarase; fumarate hydratase; Fumarate hydratase, mitochondrial; FUMH; HLRCC; LRCC; MCL; MCUL1
Accession No.	Swiss-Prot#:P07954
Uniprot	P07954
GeneID	2271;
SDS-PAGE MW	54kd
Concentration	1.0mg/ml
Formulation	Mouse IgG1 in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

## Application Details

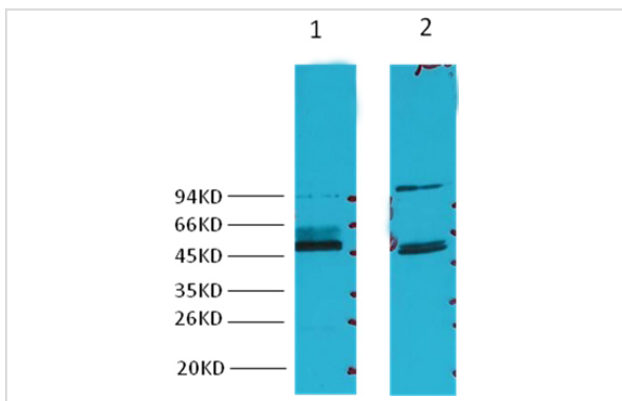
WB dilution: 1:2000~1:5000

IHC dilution:1:50-300IF dilution:1:200

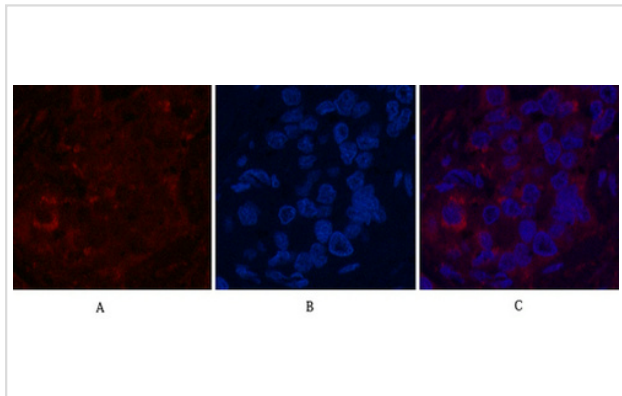
## Images



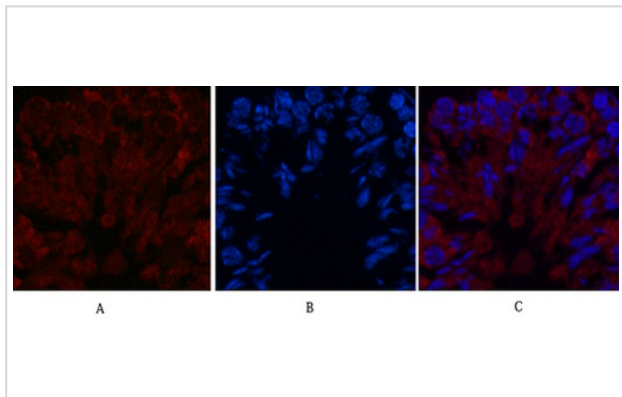
Western blot analysis of 1) 293T, 2) HepG2, 3) Hela cells, using #38030 diluted at 1:3,000.



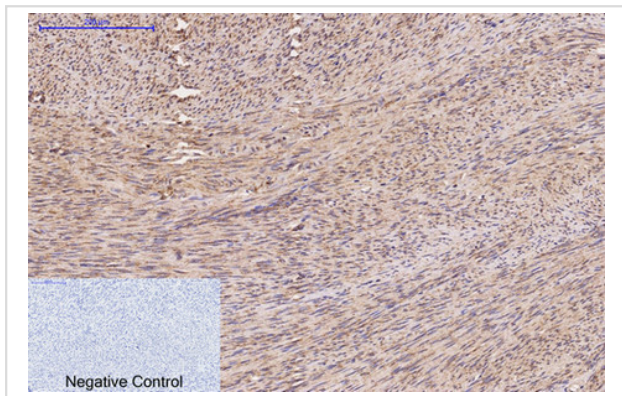
Western blot analysis of 1) Mouse Brain tissue, 2) Rat Brain tissue,, using #38030 diluted at 1:3,000.



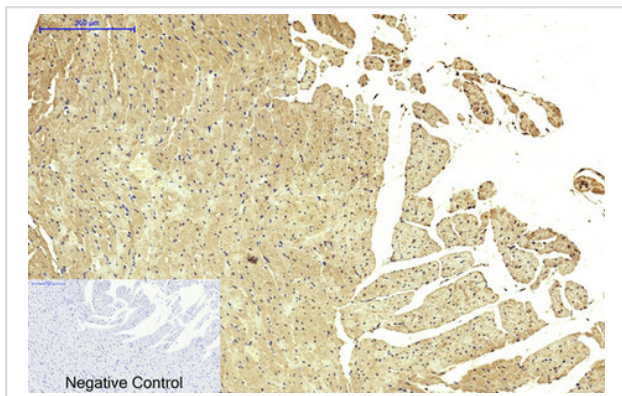
Immunofluorescence analysis of Human-liver-cancer tissue. 1,FH Monoclonal Antibody(7F1)(red) was diluted at 1:200(4C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



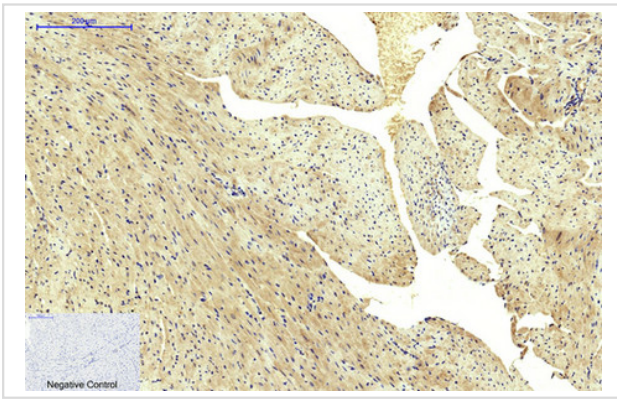
Immunofluorescence analysis of Mouse-testis tissue. 1,FH Monoclonal Antibody(7F1)(red) was diluted at 1:200(4C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1,FH Monoclonal Antibody(7F1) was diluted at 1:200(4C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-heart tissue. 1,FH Monoclonal Antibody(7F1) was diluted at 1:200(4C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-heart tissue. 1, FH Monoclonal Antibody(7F1) was diluted at 1:200(4C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98C, 20min). 3, Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.

## Background

Fumarase (FH) is an enzyme that catalyzes the reversible hydration/dehydration of fumarate to malate. Fumarase comes in two forms: mitochondrial and cytosolic. The mitochondrial isoenzyme is involved in the Krebs Cycle (also known as the Tricarboxylic Acid Cycle [TCA] or the Citric Acid Cycle), and the cytosolic isoenzyme is involved in the metabolism of amino acids and fumarate. Subcellular localization is established by the presence of a signal sequence on the amino terminus in the mitochondrial form, while subcellular localization in the cytosolic form is established by the absence of the signal sequence found in the mitochondrial variety.

Note: This product is for in vitro research use only