Citrate Synthase Recombinant Rabbit Monoclonal Antibody (3H8L26)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	3H8L26
Conjugate	Unconjugated
Immunogen	Protein corresponding to human Citrate Synthase [aa44-aa316]
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2762382

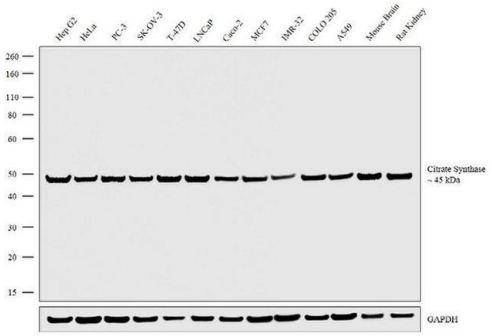
Applications	Tested Dilution	Publications
Western Blot (WB)	1:10,000	-
Immunocytochemistry (ICC/IF)	1:100	-

Product Specific Information

This antibody is predicted to react with Monkey, Cat, Horse.

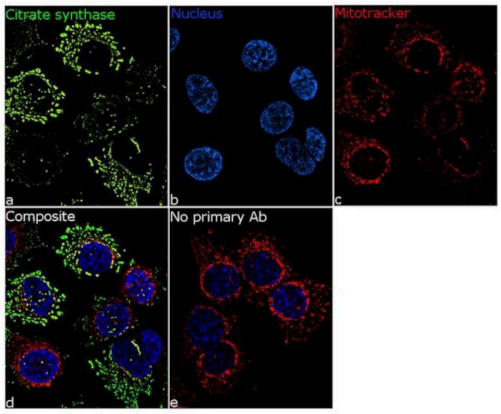
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For Citrate Synthase Recombinant Rabbit Monoclonal Antibody (3H8L26)



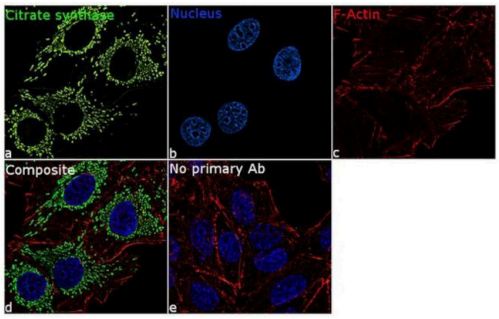
Citrate Synthase Antibody (703361) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of Hep G2 (Lane 1), HeLa (Lane 2), PC-3 (Lane 3), SK-OV-3 (Lane 4), T-47D (Lane 5), LNCaP (Lane 6), Caco-2 (Lane 7), MCF7 (Lane 8), IMR-32 (Lane 9), COLO 205 (Lane 10), A549 (Lane 11) and tissue extracts of Mouse Brain (Lane 12) and Rat Kidney (Lane 13). The blot was probed with Anti-Citrate Synthase Recombinant Rabbit Monoclonal Antibody (Product # 703361, 1:10,000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4,000 dilution). A ~45 kDa band corresponding to Citrate Synthase was observed across the cell lines and tissues tested.



Citrate Synthase Antibody (703361) in ICC/IF

For immunofluorescence analysis, Hep G2 cells were fixed and permeabilized for detection of endogenous Citrate synthase using Anti-Citrate synthase Recombinant Rabbit Monoclonal Antibody (Product # 703361, 1:100) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of Citrate synthase protein (green), Panel b) is stained for nuclei (blue) using ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). Panel c) represents mitochondrial staining using MitoTracker® Red CMXRos (Product # M7512). Panel d) is a composite image of Panels a, b and c clearly demonstrating co-localization of Citrate synthase with mitotracker which specifically binds to the mitochondria. Panel e) represents control cells without primary antibody to assess background. The images were captured at 60X magnification.



Citrate Synthase Antibody (703361) in ICC/IF

For immunofluorescence analysis, MCF7 cells were fixed and permeabilized for detection of endogenous Citrate Synthase using Anti-Citrate Synthase Recombinant Rabbit Monoclonal Antibody (Product # 703361, 1:100 dilution) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of Citrate Synthase protein (green), Panel b) is stained for nuclei (blue) using ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). Panel c) represents cytoskeletal F-actin staining using Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating mitochondrial localization of Citrate Synthase. Panel e) represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.