

# Carbonic Anhydrase IX Recombinant Rabbit Monoclonal Antibody (JJ088-9)

Product Details	
Size	100 µL
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	JJ088-9
Conjugate	Unconjugated
Immunogen	Recombinant protein within Human Carbonic anhydrase 9 aa 184-276
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	TBS, pH 7.4, with 40% Glycerol, 0.05% BSA
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.
RRID	AB_2809734

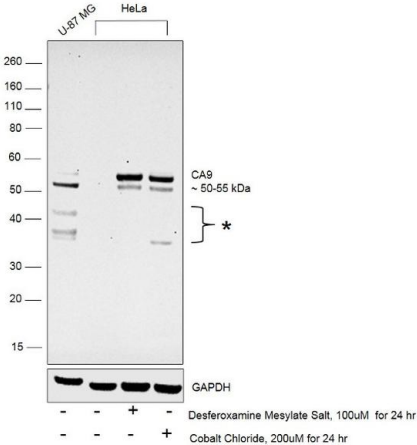
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:2,000	-
Immunohistochemistry (IHC)	1:200-1:500	-

## Product Specific Information

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.

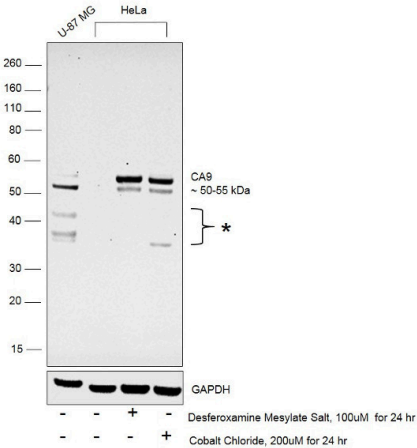
Carbonic Anhydrase IX Antibody (MA5-32457) in WB

Western blot was performed using Anti-Carbonic Anhydrase IX Monoclonal Antibody (Product # MA5-32457) and ~ 50-55 kDa bands corresponding to CA9 was observed across cell lines tested and increased upon Deferoxamine and Cobalt Chloride treatment in HeLa along with an uncharacterized band (\*) at ~35 kDa. Whole cell extracts (30 µg lysate) of U-87 MG (Lane 1), HeLa (Lane 2), HeLa treated with Deferoxamine (100uM for 24 Hours) (Lane 3) and HeLa treated with Cobalt Chloride (200uM for 24 Hours) (Lane 4) were electrophoresed using NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). 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 (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



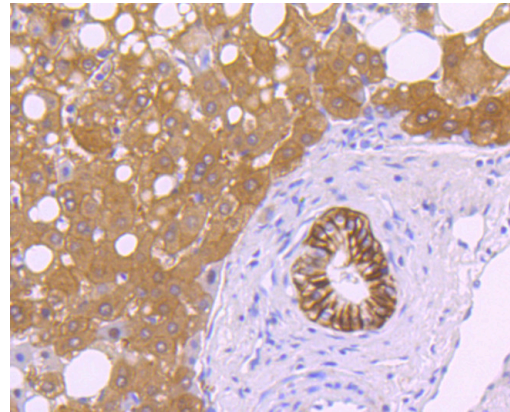
Carbonic Anhydrase IX Antibody (MA5-32457)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models tested owing to their inherent genetic constitution. Higher expression of CA9 was observed in U-87 MG in comparison to HeLa using Anti-Carbonic Anhydrase IX Recombinant Rabbit Monoclonal Antibody (JJ088-9) (Product # MA5-32457) in Western Blot. {RE}



Carbonic Anhydrase IX Antibody (MA5-32457) in IHC (P)

Immunohistochemical analysis of Carbonic Anhydrase IX of paraffin-embedded Human liver cancer tissue using a Carbonic-Anhydrase-IX Monoclonal antibody (Product #MA5-32457). Counter stained with hematoxylin.



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