BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-CAS9 N-terminal Monoclonal Antibody

Catalog Number: M30929-2

Overview

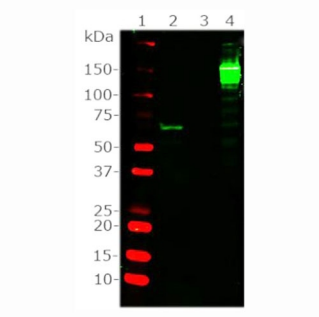
Product Name	Anti-CAS9 N-terminal Monoclonal Antibody
Reactive Species	Streptococcus pyogenes
Description	Boster Bio Anti-CAS9 N-terminal Monoclonal Antibody catalog # M30929-2. Tested in IHC, WB applications. This antibody reacts with Streptococcus pyogenes.
Application	IHC, WB
Clonality	Monoclonal
Formulation	Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN_3
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	G3ECR1

Technical Details

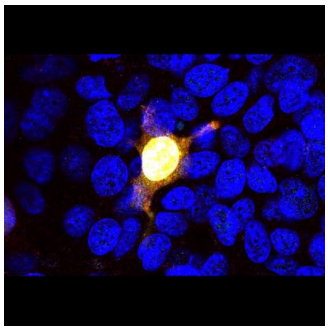
Immunogen	N-terminal region, amino acids 1-608 of Cas9 sequence CDJ55032.1 from Streptococcus pyogenes, expressed in and purified from E. coli.
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 1:1,000-1: 2,000 on CAS9 transfected cells and 1:10,000-20,000 on pure full length CAS9 protein. IF/ICC:1:1,000-2,000

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-CAS9 N-terminal Monoclonal Antibody (M30929-2) Images



Western blot analysis of M30929-2. [1] Protein size marker with size in kiloDaltons, [2] blot of crude lysate from HEK293 cells transfected with the M30929-2 immunogen, the N-terminal 1-608 amino acids of Cas9, [3] non-transfected control HEK293 cell extract, [4] 40ng full length S. pyogenes Cas9. Blots were probed with M30929-2 at 1:1,000 dilution and as expected, the antibody recognizes the immunogen and full length Cas9 *S. pyogenes* protein at 160kDa.



HEK293 cells were transfected with a construct including the N-terminal 608 amino acids of *S. pyogenes* CAS9 fused to GFP and stained with M30929-2 in red. Transfected cells express the green fusion protein and bind the antibody in red, producing a yellow signal. Nuclear DNA in transfected and non-transfected cells is revealed with the blue DNA stain DAPI.