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Product no AS17 4124

Cas9 | CRISPR-associated endonuclease 9 (monoclonal)

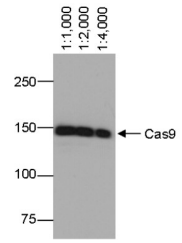
Product information

Immunogen	Recombinant protein part from the N-terminus of Cas9 from *Streptococcus pyogenes*.
Host	Mouse
Clonality	Monoclonal
Subclass/isotype	IgG1k
Purity	Total IgG. Protein A purified in PBS. Contains 0.02 % sodium azide.
Format	Liquid
Quantity	50 µg
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. For long term storage -80°C is recommended. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application information

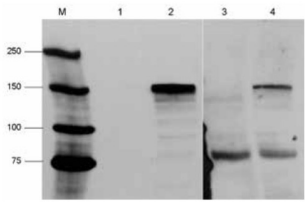
Recommended dilution	1 : 200 (IF), (IP), 1 : 1000-1 : 5000 (WB)
Expected | apparent MW	Depends upon a MW of a protein which is a fusion partner
Confirmed reactivity	Cas9 from *Streptococcus pyogenes*

Application example



Protein extracts from HEK293 cells were transfected with a myc-tagged Cas9. Visualization was made using monoclonal anti-Cas) antibodies used in annotated dilutions.

Protein samples were separated on 7.5 % SDS-PAGE and blotted 1h to nitrocellulose membrane. Blots were blocked with 3 % non-fat dry milk in PBS+Tween for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a given dilution for 1h at RT with agitation in PBS-T. The antibody solution was decanted and the blot was rinsed briefly twice, then washed 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in for 1h at RT with agitation. The blot was washed as above and incubated in ECL solution followed by exposure to an X-ray film.



Protein extracts from HEK293 cells were transfected with a myc-tagged Cas9. Transfected cells (lane 2 and 4) and untransfected cells (lane 1 and 3) cells. Detection using anti-myc antibody (lane 3 and 4).

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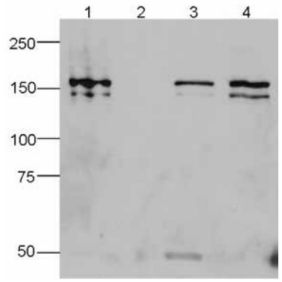
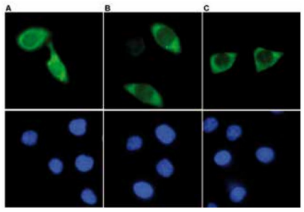


IP was performed on whole cell extracts (100 µg) from HEK293 cells transfected with a Flag-tagged Cas9 using monoclonal anti-Cas9 antibodies. The immunoprecipitated proteins were subsequently analysed by Western blot with the antibody. Lane 3 and 4 show the result of the IP; a negative IP control (IP on untransfected cells) and the input (15 µg) are shown in lane 2 and 1, respectively.



Hela cells were transiently transfected with a Flag-tagged Cas9 expression vector. 48 hours post transfection the cells were fixed in 3.7% formaldehyde, permeabilized in 0.5% Triton-X-100 and blocked in PBS containing 2% BSA for 2 hours at RT. The cells were stained with monoclonal anti-Cas9 (A and B) or with an anti- Flag (C) antibody at 4°C O/N, followed by incubation with an anti-mouse secondary antibody coupled to AF488 for 1 h at RT. Nuclei were counter-stained with Hoechst 33342 (bottom).