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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Phospho-DiGeorge Syndrome Critical Region 8 DGCR8 (Ser377) Antibody

Catalog Number: P00475

About DGCR8

The Drosha-DGCR8 microprocessor complex is required for microRNA (miRNA) biogenesis. DGCR8 (DiGeorge Syndrome Critical Region 8) recognizes the RNA substrate, whereas Drosha functions as the endonuclease. DGCR8, which contains two double-stranded RNA (dsRNA)-binding domains, interacts with the pri-miRNA and functions as the molecular anchor that measures the distance from the ds-RNA-ssRNA junction and directs Drosha cleavage 11bp away (Han, J., et al, 2006). The efficiency of Drosha cleavage increases in the presence of heme and promotes the formation of highly ordered DGCR8 structures upon binding to RNA (Faller, M., et al, 2010).

Overview

Product Name	Anti-Phospho-DiGeorge Syndrome Critical Region 8 DGCR8 (Ser377) Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Phospho-DiGeorge Syndrome Critical Region 8 DGCR8 (Ser377) Antibody (Catalog # P00475). Tested in WB applications. This antibody reacts with Human, Mouse.
Application	WB
Clonality	Polyclonal
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	Q8WYQ5

Technical Details

Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser377 of human DGCR8, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Human.
Predicted Reactive Species	Bovine, Canine, Chicken, Guinea Pig, Primate, Sheep, Zebrafish
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.

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Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phospho peptide affinity columns.
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: 1:1000

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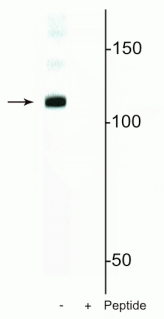
Anti-Phospho-DiGeorge Syndrome Critical Region 8 DGCR8 (Ser377) Antibody (P00475) Images



Western blot of mouse nuclei lysate showing specific immunolabeling of the ~120 kDa DGCR8 protein phosphorylated at in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is blocked by preadsorption of the phosphopeptide used as the antigen, but not by the corresponding non-phosphopeptide (not shown).