10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-DGCR8 (Ser377) Antibody

Our Anti-DGCR8 (Ser377) rabbit polyclonal phosphospecific primary antibody from PhosphoSolutions is
Catalog # AN1359

Specification

Anti-DGCR8 (Ser377) Antibody - Product Information

Primary Accession	Q8WYQ5
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	86045

Anti-DGCR8 (Ser377) Antibody - Additional Information

Gene ID	54487

Other Names
DGCRK6 antibody, C22orf12 antibody, D16H22S788E antibody, D16Wis2 antibody, DGCR 8 antibody, Dgcr8 antibody, DGCR8 microprocessor complex subunit antibody, DGCR8_HUMAN antibody, DGCRK 6 antibody, DiGeorge syndrome critical region 8 antibody, DiGeorge syndrome critical region gene 8 antibody, Gy1 antibody, Microprocessor complex subunit DGCR8 antibody, pasha antibody

Target/Specificity
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).

Format
Antigen Affinity Purified from Pooled Serum

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Anti-DGCR8 (Ser377) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping
Blue Ice

Anti-DGCR8 (Ser377) Antibody - Protocols

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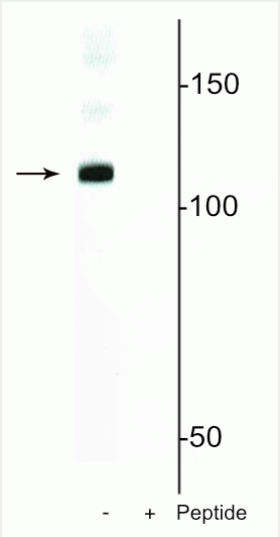
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-DGCR8 (Ser377) Antibody - 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).

Anti-DGCR8 (Ser377) Antibody - Background

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).