# ARG52258
# anti-DGCR8 phospho (Ser377) antibody

Package: 50 µl
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Rabbit Polyclonal antibody recognizes DGCR8 phospho (Ser377) |
| Tested Reactivity | Hu, Ms |
| Tested Application | WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | DGCR8 |
| Species | Human |
| Immunogen | Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser377 conjugated to KLH |
| Conjugation | Un-conjugated |
| Alternate Names | DOPA decarboxylase; AADC; DDC; Aromatic-L-amino-acid decarboxylase; EC 4.1.1.28 |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| WB | 1:1,000 |

Application Note: Specific for the ~120k DGCR8 protein phosphorylated at Ser377. Immunolabeling is blocked by the phosphopeptide used as antigen but not by the corresponding dephosphopeptide.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

## Properties

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| Form | Liquid |
| Purification | Affinity Purified |
| Buffer | 10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol |
| Stabilizer | 0.1 mg/ml BSA, 50% Glycerol |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

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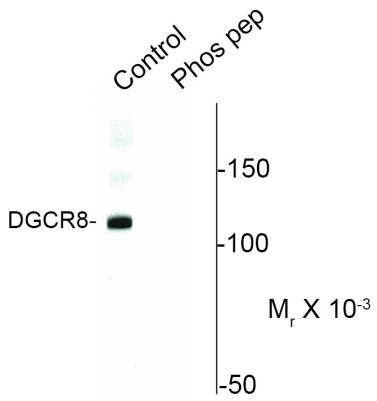
|---|---|
| Database links | GeneID: 13195 Mouse |
| | GeneID: 1644 Human |
| | Swiss-port # O88533 Mouse |
| | Swiss-port # P20711 Human |
| Gene Symbol | DGCR8 |
| Gene Full Name | dopa decarboxylase (aromatic L-amino acid decarboxylase) |
| Background | The Drosha-DGCR8 microprocessor complex is required 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 et al, 2010). |
| Research Area | Cancer antibody; Metabolism antibody; Neuroscience antibody |
| Calculated Mw | 54 kDa |

## Images




ARG52258 anti-DGCR8 phospho (Ser377) antibody WB image

Western blot: Mouse nuclei lysate showing specific immunolabeling of the ~120k DGCR8 protein phosphorylated at Ser 377 (control) by using ARG52258 anti-DGCR8 phospho (Ser377) antibody.
The immunolabeling is blocked by the phosphopeptide used as the antigen (Phos pep).