

Datasheet: MCA4756GT

BATCH NUMBER 140515

| | |
|----------------------|---------------------------------------|
| Description: | RAT ANTI HUMAN AID |
| Specificity: | AID |
| Other names: | ACTIVATION-INDUCED CYTIDINE DEAMINASE |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | EK2-5G9 |
| Isotype: | IgG2b |
| Quantity: | 50 µg |

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

| | Yes | No | Not Determined | Suggested Dilution |
|--------------------------------|-----|----|----------------|--------------------|
| Flow Cytometry (1) | ▪ | | | |
| Immunohistology - Frozen | | | ▪ | |
| Immunohistology - Paraffin (2) | ▪ | | | |
| ELISA | ▪ | | | |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | ▪ | | | |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.

(2)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. EDTA pH8.0 is recommended for this purpose.

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|-----------------------|---|
| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |

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| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) |
| Approx. Protein Concentrations | IgG concentration 1.0 mg/ml |
| Immunogen | Synthetic peptide corresponding to amino acids 185-198 of human AID. |
| External Database Links | <p>UniProt: Q9GZX7 Related reagents</p> <p>Entrez Gene: 57379 AICDA Related reagents</p> |
| Synonyms | AID |
| RRID | AB_2224241 |
| Fusion Partners | Spleen cells from Long Evans rats were fused with cells of the P3X63-Ag8.653 myeloma cell line. |
| Specificity | <p>Rat anti Human AID antibody, clone EK2-5G9 recognizes human Single-stranded DNA cytosine deaminase, also known as Activation-induced cytidine deaminase or Cytidine aminohydrolase. AID is a 198 amino acid ~24 kDa RNA-editing enzyme essential for the initiation of immunoglobulin class switch recombination, somatic hypermutation and gene conversion.</p> <p>AID is selectively expressed by germinal centre B cells and B cell-derived lymphomas (Basso et al. 2012). Mutation in the AICDA gene is responsible for the autosomal recessive condition Immunodeficiency with hyper-IgM 2 (HIGM2) A rare immunodeficiency syndrome characterized by normal or elevated serum IgM levels with absence of IgG, IgA, and IgE resulting in extreme susceptibility to bacterial infection.</p> |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul. |
| Histology Positive Control Tissue | Germinal centre B cells |
| Storage | <p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p> |

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA4756GT>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

| | |
|--|---|
| Goat Anti Rat IgG (STAR69...) | FITC |
| Goat Anti Rat IgG (STAR73...) | RPE |
| Rabbit Anti Rat IgG (STAR17...) | FITC |
| Goat Anti Rat IgG (STAR72...) | HRP |
| Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) | DyLight@550 , DyLight@650 , DyLight@800 |
| Rabbit Anti Rat IgG (STAR21...) | HRP |
| Rabbit Anti Rat IgG (STAR16...) | DyLight@800 |
| Goat Anti Rat IgG (STAR131...) | Alk. Phos. , Biotin |

Recommended Negative Controls

[RAT IgG2b NEGATIVE CONTROL \(MCA6006GA\)](#)

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Worldwide

Tel: +44 (0)1865 852 700

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
'M367993:200529'

Printed on 25 Mar 2023

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