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# 10-4121: Monoclonal Antibody to RIG-I (Clone: ABM4H29)

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| **Clonality :** | Monoclonal |
| **Clone Name :** | ABM4H29 |
| **Application :** | IHC,FACS,WB |
| **Reactivity :** | Human |
| **Gene :** | DDX58 |
| **Gene ID :** | 23586 |
| **Uniprot ID :** | O95786 |
| **Format :** | Purified |
| **Alternative Name :** | DDX58 |
| **Isotype :** | Mouse IgG1 Kappa |
| **Immunogen Information :** | A partial length recombinant human RIG-I protein (amino acids 1-220) was used as the immunogen for this antibody. |

## Description

RIG-I (retinoic-acid-inducible gene I), also known as DDX58 (DEAD (Asp-Glu-Ala-Asp) box polypeptide 58) is a 925-residue cytoplasmic viral RNA receptor, critically involved in the activation of the innate immune response to RNA virus infection. It is a member of the RIG-I-like receptor (RLR) family and is an essential intracellular sensor for several 5-triphosphorylated RNA viruses. RIG-I elicits its antiviral interferon (IFN) responses by recognizing viral double-stranded RNAs (dsRNAs). Structurally it comprises a helicase domain, a C-terminal domain, and N-terminal CARDs (caspase activation recruitment domains) involved in activating MAVS (mitochondrial antiviral signaling protein). Upon binding of 5'-triphosphorylated RNA, RIG-I undergoes conformational changes and post-translational modifications that allow multimerization and interaction with the mitochondrial antiviral signaling protein (MAVS).

## Product Info

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| **Amount :** | 25 µg / 100 µg |
| **Purification :** | Protein G Chromatography |
| **Content :** | 25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic. |
| **Storage condition :** | Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles. |

## Application Note

Western blot analysis: 2-4 µg/ml, Immunohistochemical analysis: 15 µg/ml, Flowcytometric analysis: 0.5-1µg/10^6 cells

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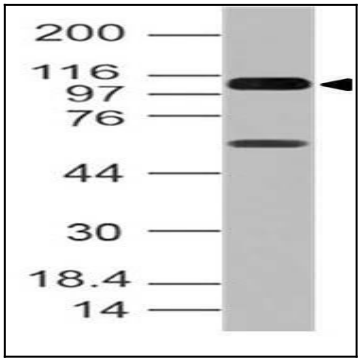


Fig-1: Western blot analysis of RIG1/DDx58. Anti-RIG1/DDx58 antibody (Clone: ABM4H29) was tested at 2 µg/ml on human kidney lysate.

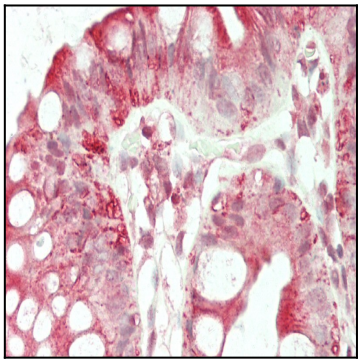

Fig-2: Immunohistochemical analysis of RIG1/DDx58 in human Colon Tissue using RIG1/DDx58 antibody (Clone: ABM4H29) at 15 µg/ml.

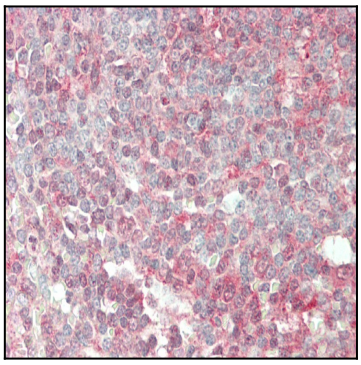

Fig-3: Immunohistochemical analysis of RIG1/DDx58 in human Spleen Tissue using RIG1/DDx58 antibody (Clone: ABM4H29) at 15 µg/ml.

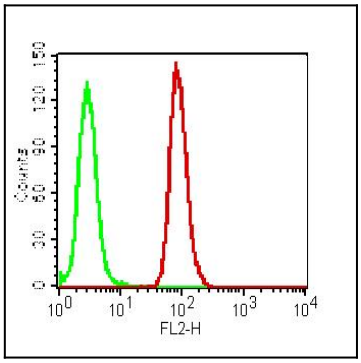


Figure-4: Intracellular flow cytometric analysis of RIG-I in K562 Cell line using 0.5 µg/10^6 cells of Anti-RIGI antibody (ABM4H29). Green represent isotype control and red represent Anti-RIG I antibody (10-4121 Abeomics). Goat anti-mouse PE conjugate was used as secondary.