# Data Sheet (Cat.No.TMAB-06810)

TargetMol

## Anti-GSDMA Polyclonal Antibody

### Product Details

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| Ig Type: | IgG |
| Reactivity: | Mouse,Rat (predicted:Human,Dog,Cow,Horse) |
| Molecular Weight: | Theoretical: 49 kDa. |
| Purification: | Protein A purified |

### Applications

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| Verified Activity: | 1. Tissue/cell: rat rectum tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37℃ for 20 min;<br>Incubation: Anti-GSDMA Polyclonal Antibody, Unconjugated (TMAB-06810) 1: 200, overnight at 4℃, followed by conjugation to the secondary antibody and DAB staining<br>2. Tissue/cell: mouse liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37℃ for 20 min;<br>Incubation: Anti-GSDMA Polyclonal Antibody, Unconjugated (TMAB-06810) 1: 200, overnight at 4℃, followed by conjugation to the secondary antibody and DAB staining |
| Application: | IHC-P,IHC-Fr,IF |
| Recommended | IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500 |

### Properties

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| Stability & Storage: | Store at 2℃-8℃ for 1 month. Store at -20℃ or -80℃ for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

### Antigen Details

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| Immunogen: | KLH conjugated synthetic peptide: human GSDMA |
| Antigen Species: | Human |
| Gene ID: | 284110 |
| Uniprot ID: | Q96QA5 |

### Research Background

Gasdermin is a 445 amino acid protein that localizes to the perinuclear region of the cytoplasm and belongs to the gasdermin family. Expressed predominately in tissues of the gastrointestinal tract and also present in skin and mammary gland, gasdermin functions to induce apoptosis and is thought to possess tumor suppression activity, specifically in gastric cancer cells. The gene encoding gasdermin maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression

is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, though specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes.



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