



# Anti-ITGAE (aa 57-171) polyclonal antibody (DPAB-DC1741)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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| <b>Antigen Description</b> | Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This gene encodes an I-domain-containing alpha integrin that undergoes post-translational cleavage in the extracellular domain, yielding disulfide-linked heavy and light chains. In combination with the beta 7 integrin, this protein forms the E-cadherin binding integrin known as the human mucosal lymphocyte-1 antigen. This protein is preferentially expressed in human intestinal intraepithelial lymphocytes (IEL), and in addition to a role in adhesion, it may serve as an accessory molecule for IEL activation. |
| <b>Immunogen</b>           | ITGAE (NP_002199, 57 a.a. ~ 171 a.a) partial recombinant protein with GST tag. The sequence is<br>SPRTKRTPGPLHRC SLVQDEILCHPVEHVPIPKGRHRGVTTVRSHHGVLICIQVLVRRPH<br>SLSSELTGTCSLLGPDLRPQAQANFFDLENLLDPDARVDTGDCYSNKEGGEDDV                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source/Host</b>         | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species Reactivity</b>  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Conjugate</b>           | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>        | WB (Recombinant protein), ELISA,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Size</b>                | 50 µl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Buffer</b>              | 50 % glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Preservative</b>        | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>             | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## GENE INFORMATION

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| <b>Gene Name</b>           | <a href="#">ITGAE integrin, alpha E (antigen CD103, human mucosal lymphocyte antigen 1: alpha polypeptide) [ Homo sapiens (human) ]</a>                                                                                                                                   |
| <b>Official Symbol</b>     | ITGAE                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>            | ITGAE; integrin, alpha E (antigen CD103, human mucosal lymphocyte antigen 1; alpha polypeptide); CD103; HUMINAE; integrin alpha-E; HML-1 antigen; integrin alpha-IEL; mucosal lymphocyte 1 antigen; antigen CD103, human mucosal lymphocyte antigen 1; alpha polypeptide; |
| <b>Entrez Gene ID</b>      | <a href="#">3682</a>                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>      | <a href="#">NP_002199</a>                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>          | <a href="#">P38570</a>                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 17p13                                                                                                                                                                                                                                                                     |
| <b>Pathway</b>             | E-cadherin signaling in the nascent adherens junction; Focal Adhesion; Integrin-mediated cell adhesion; Regulation of actin cytoskeleton                                                                                                                                  |
| <b>Function</b>            | metal ion binding;                                                                                                                                                                                                                                                        |