# Recombinant Human ITGAE

**Cat. No.** ITGAE-29495TH **Lot. No.** (See product label)

## SPECIFICATION

| | |
|---|---|
| **Product Overview** | Recombinant fragment of Human Integrin alpha E with N terminal proprietary tag, predicted mwt: 38.28 kDa. |
| **Species** | Human |
| **Source** | Wheat Germ |
| **ProteinLength** | 115 amino acids |
| **Description** | 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. |
| **Molecular Weight** | 38.280kDa inclusive of tags |
| **Tissue specificity** | Expressed on a subclass of T-lymphocytes known as intra-epithelial lymphocytes which are located between mucosal epithelial cells. |
| **Form** | Liquid |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| **Purity** | Proprietary Purification |
| **Storage buffer** | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl |
| **Storage** | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles. |
| **Sequences of amino acids** | SPRTKRTPGPLHRCSLVQDEILCHPVEHVPIPKGRHRGVT VVRSHHGVLICIQVLVR RPHSLSSELTGTCSLLGPDLRPQ AQANFFDLENLLDPDARVDTGDCYSNKEGGGE DDV |
| **Sequence Similarities** | Belongs to the integrin alpha chain family.Contains 7 FG-GAP repeats.Contains 1 VWFA domain. |

## GENE INFORMATION

| | |
|---|---|
| **Gene Name** | ITGAE integrin, alpha E (antigen CD103, human mucosal lymphocyte antigen 1; alpha polypeptide) [ Homo sapiens ] |
| **Official Symbol** | ITGAE |
| **Synonyms** | ITGAE; integrin, alpha E (antigen CD103, human mucosal lymphocyte antigen 1; alpha polypeptide); integrin alpha-E; CD103; HUMINAE; |
| **Gene ID** | 3682 |
| **mRNA Refseq** | NM_002208 |
| **Protein Refseq** | NP_002199 |
| **MIM** | 604682 |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| **Uniprot ID** | P38570 |
| **Chromosome Location** | 17p13 |
| **Pathway** | E-cadherin signaling in the nascent adherens junction, organism-specific biosystem; Focal Adhesion, organism-specific biosystem; Integrin cell surface interactions, organism-specific biosystem; Integrin-mediated cell adhesion, organism-specific biosystem; Regulation of actin cytoskeleton, organism-specific biosystem; |
| **Function** | receptor activity; |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA