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Datasheet for ABIN6239817 GZMM Protein (AA 26-257) (His tag)





Overview

| Quantity: | 50 µg |
|-------------------------------|---|
| Target: | GZMM |
| Protein Characteristics: | AA 26-257 |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This GZMM protein is labelled with His tag. |
| Application: | Activity Assay (AcA), Cell Culture (CC) |

Product Details

| Characteristics: | Tag location: N-terminal His Tag |
|------------------------------|---|
| Purity: | > 90 % |
| Biological Activity Comment: | GZMM (Granzyme M) is one of the neutral serine proteases, which is specifically expressed by |
| | NK cells and mediates a novel major and perforin-dependent cell death pathway. Granzyme M |
| | has been proven to targets α -Tubulin and disorganizes the microtubule network, besides, Ezrin |
| | has also been identified as a substrate of GZMM. Therefore, a catalytic assay was conducted to |
| | detect the protease activity of recombinant human GZMM using Hela cells lysates. Briefly, |
| | protein lysates were extracted from 2x107 Hela cells using Lysis Buffer, then incubated with |
| | normal or inactivated GZMM in 37oC for 4h. Samples were immunoblotted using Abs β -actin as |
| | control, and Ezrin to detect the enzyme activity. The results were shown below. It is obvious |
| | that recombinant human GZMM cleaved Ezrin. Normal Heated 0 4 4 GZMM (μM) Ezrin Actin |
| | Figure 1. GZMM cleaves Ezrin |

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Target Details

| Target: | GZMM |
|-------------------|--|
| Alternative Name: | Granzyme M (GZMM) (GZMM Products) |
| Background: | Alternative Names: GZM-M, LMET1, MET1, Hu-Met-1, Met-ase, Lymphocyte Met Ase 1, Met-1 serine protease, Natural killer cell granular protease |
| Molecular Weight: | 26kDa |
| UniProt: | P51124 |

Application Details

| Application Notes: | Isoelectric Point: 10.3 |
|--------------------|---|
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Lyophilized |
| Buffer: | 20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300. |
| Preservative: | Dithiothreitol (DTT), Other preservative, ProClin |
| Precaution of Use: | This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only. |

Images

| 1 | kDa 94 66.2 |
|---|-------------------|
| | 45 |
| | 33 |
| - | 26 |
| | 20 |
| | 14.4 |
| | |

Image 1.