

## Anti-Granzyme H/GZMH Antibody (5P967)

## Product Details

|               |              |
|---------------|--------------|
| Ig Type:      | Mouse IgG2a  |
| Reactivity:   | Human        |
| Conjugation:  | Unconjugated |
| Clone:        | 5P967        |
| Purification: | Protein A    |

## Applications

|              |                      |
|--------------|----------------------|
| Application: | ELISA                |
| Recommended  | ELISA: 1:1000-1:2000 |

## Properties

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

## Antigen Details

|                  |  |
|------------------|--|
| Immunogen:       | Recombinant Protein: Human Granzyme H / GZMH protein |
| Antigen Species: | Human  |
| Synonyms:        | CCP-X;CGL2;CTLA1;CGL-2;CSP-C;CTSG2                   |

## Research Background

Granzymes are key components of the immune response that play important roles in eliminating host cells infected by intracellular pathogens. Several granzymes are potent inducers of cell death. A total of eight granzymes (A-G and M) have been identified in the mouse, but only five are known in humans (A, B, H, M, and granzyme 3), and granzyme H appears to be specifically human. Human granzyme H is a neutral serine protease that is expressed predominantly in the lymphokine-activated killer (LAK)/natural killer (NK) compartment of the immune system. In adenovirus-infected cells in which granzyme B (gzmB) and downstream apoptosis pathways are inhibited, granzyme H directly cleaves the adenovirus DNA-binding protein (DBP), a viral component required for viral DNA replication. This virus demonstrated that gzmH directly induces an important decay in viral DNA replication. Interestingly, gzmH also cleaves the adenovirus 1K assembly protein, a major inhibitor of gzmB, and relieves gzmB inhibition. Granzyme H has a very high amino acid identity (>9%) with many portions of the granzyme B sequence, particularly near the amino terminus of the molecule despite performing a distinct enzymic function.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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