

**产品名称:** IDE(3H4)Mouse Monoclonal Antibody  
**产品货号:** AMM12351

### 产品概述 (Summary)

|                   |                                                                                                                 |
|-------------------|-----------------------------------------------------------------------------------------------------------------|
| 描述(Description)   | Mouse monoclonal Antibody                                                                                       |
| 宿主(Host)          | Mouse                                                                                                           |
| 应用(Application)   | WB,IHC,ICC/IF                                                                                                   |
| 种属反应(Reactivity)  | Human,Hamster                                                                                                   |
| 偶联物(Conjugation)  | Unconjugated                                                                                                    |
| 修饰(Modification)  | Unmodified                                                                                                      |
| 同种型(Isotype)      | IgG                                                                                                             |
| 克隆(Clonality)     | Monoclonal                                                                                                      |
| 剂型(Form)          | Liquid                                                                                                          |
| 保存条件(Storage)     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.                        |
| 储存溶液(Buffer)      | PBS, pH 7.4, containing 0.5%protective protein, 0.02% New type preservative N as Preservative and 50% Glycerol. |
| 纯化 (Purification) | Affinity purification                                                                                           |

### 产品应用(Application)

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| 稀释比(Dilution Ratio)   | WB 1:500-1:2000,IHC 1:50-1:300,ICC/IF 1:100-1:200 |
| 分子量(Molecular Weight) | 118kDa                                            |

### 抗原信息(Antigen Information)

|                       |                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------|
| 基因名(Gene Name)        | IDE                                                                                              |
| 别名(Alternative Names) | IDE; Insulin-degrading enzyme; Abeta-degrading protease; Insulin protease; Insulinase; Insulysin |
| 基因 ID(Gene ID)        | 3416.0                                                                                           |
| SwissProt ID          | P14735                                                                                           |
| 免疫原(Immunogen)        | Synthetic Peptide of IDE                                                                         |

### 研究背景 (Background)

This gene encodes a zinc metallopeptidase that degrades intracellular insulin, and thereby terminates insulins activity, as well as participating in intercellular peptide signalling by degrading diverse peptides such as glucagon, amylin, bradykinin, and

kallidin. The preferential affinity of this enzyme for insulin results in insulin-mediated inhibition of the degradation of other peptides such as beta-amyloid. Deficiencies in this protein's function are associated with Alzheimer's disease and type 2 diabetes mellitus but mutations in this gene have not been shown to be causative for these diseases. This protein localizes primarily to the cytoplasm but in some cell types localizes to the extracellular space, cell membrane, peroxisome, and mitochondrion. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described. **activity:** Degradation of insulin, glucagon and other polypeptides. **No action on proteins.** **cofactor:** Binds 1 zinc ion per subunit. **function:** May play a role in the cellular processing of insulin. May be involved in intercellular peptide signaling. **PTM:** The N-terminus is blocked. **similarity:** Belongs to the peptidase M16 family. **subunit:** Homodimer.

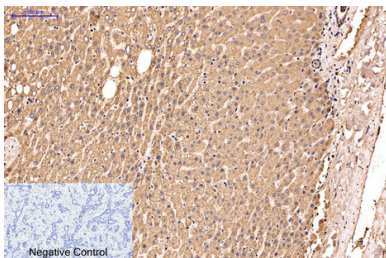
## 研究领域 (Research Area)

Alzheimer's disease;

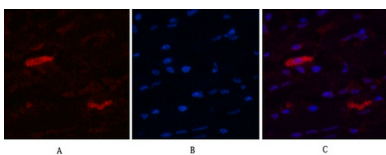
## 注意事项 (Note)

For research use only.

## 图片 (Image Data)

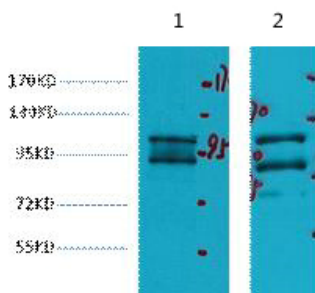


Immunohistochemical analysis of paraffin-embedded Human-liver-cancer tissue. 1, IDE Monoclonal Antibody (3H4) was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Immunofluorescence analysis of Human-breast tissue. 1, IDE Monoclonal Antibody (3H4) (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

Western blot analysis of 1) HeLa, 2) HepG2, diluted at 1:2000



## EnkiLife 优势产品推荐

| 产品类别                        | 产品货号     | 产品名称                                               |
|-----------------------------|----------|----------------------------------------------------|
| WB 解决方案                     | RA10020  | 2h 极速 WB 即用型全流程试剂盒                                 |
|                             | RA10021  | 4h 快速 WB 即用型全流程试剂盒                                 |
|                             | RA10042  | 5h 畅享版 WB 全流程试剂盒                                   |
|                             | RA10037  | 校准级彩色预染蛋白 Marker (8-180kDa)                        |
|                             | RA10038  | 校准级彩色预染蛋白 Marker (10-250kDa)                       |
|                             | RA10039  | 校准级高分子彩色预染蛋白 Marker (25-400kDa)                    |
| TSA 多重荧光染色试剂盒               | RA10008  | TSA 双标三色多重荧光染色试剂盒 (mIHC)                           |
|                             | RA10009  | TSA 三标四色多重荧光染色试剂盒 (mIHC)                           |
|                             | RA10010  | TSA 四标五色多重荧光染色试剂盒 (mIHC)                           |
|                             | RA10011  | TSA 五标六色多重荧光染色试剂盒 (mIHC)                           |
|                             | RA10012  | TSA 六标七色多重荧光染色试剂盒 (mIHC)                           |
| IHC 检测试剂盒                   | RA10006  | HRP Anti-Mouse/Rabbit IHC Detection System         |
|                             | RA10007  | Polymer-HRP Anti-Mouse/Rabbit IHC Detection System |
| 抗体标记试剂盒                     | RE80004p | 辣根过氧化物酶(HRP)抗体标记试剂盒                                |
|                             | RE80002q | Sulfo-NHS-生物素标记试剂盒                                 |
|                             | RE80007p | Cy3 荧光素标记试剂盒                                       |
|                             | RE80011p | Fluor488 荧光素标记试剂盒                                  |
|                             | RE80017p | Fluor750 荧光素标记试剂盒                                  |
|                             | RE80005p | 藻红蛋白(R-PE) 抗体快速标记试剂盒                               |
|                             | RE80040  | PE-Cy7 串联染料抗体快速标记试剂盒                               |
| 稳转细胞系构建服务<br>(免费赠送全膜 WB 验证) | TS-0001  | 过表达稳转细胞系构建                                         |
|                             | TS-0002  | 敲低稳转细胞系构建                                          |
|                             | TS-0003  | 敲除细胞系构建                                            |

限于篇幅，更多产品详见官网：<https://www.enkilife.cn>