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IDE Mouse mAb

Catalog Number: bsm-33089M

Target Protein: IDE

Concentration: 1mg/ml

Form: Size:50ul/100ul/200ul

Liquid

Size: 200ug (PBS only)

Lyophilized

Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled

water. Optimal concentration should be determined by the end user.

Host: Mouse

Clonality: Monoclonal

Clone No.: 5H4
Isotype: IgG

Applications: IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), ICC/IF (1:100-500)

Reactivity: (predicted:Human)

Predicted MW: 117 kDa

Subcellular Secreted, Cell membrane, Cytoplasm

Locations:

Entrez Gene: 3416 Swiss Prot: P14735

Purification: affinity purified by Protein G

Storage: Size:50ul/100ul/200ul

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Size: 200ug (PBS only)

0.01M PBS

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Insulysin was identified nearly a century ago as an enzyme responsible for the degradation

of insulin in cells, although the precise interactions between insulin and insulysin remain elusive. Human insulysin was cloned in 1988, and shown to be a 118 kDa protein that exists primarily as a homodimer, and perhaps also complexed with other molecules. The sequence

is well conserved between humans, rats and mice, and the antibody recognizes these

species. Insulysin is a metalloproteinase of the clan ME, family M16, which contains an active

site HxxEH, a reversal of the canonical HExxH zinc binding motif. Considered a zinc

metalloproteinase, the activity of insulysin can be blocked with EDTA or 1-10 phenanthroline. In addition to the active metalloproteinase domain, insulysin contains a second metalloproteinase site which is considered catalytically inactive, and is thought to assist in substrate binding. Insulysin is most closely related to the bacterial proteinase pitrilysin, (the human orthologue of which appears to be MPRP1) and the mammalian proteinsae nardilysin. Generally thought to be a cytoplasmic protein, insulysin has been isolated from many different tissues and cell lines, and can degrade intact insulin, insulin B chain, glucagon, denatured hemoglobin, alpha amyloid protein, TGF alpha and amylin. Recent work implicates insulysin in clearing beta amyloid plaques from the brain, and has generated much interest in Alzheimer's disease research. The pH optimum for insulysin is basic, pH 8.5, which also distinguishes it from other metalloproteinases.