

## Anti-CD13/ANPEP Antibody (Monoclonal, 34A01)

Catalog Number: M02591-7

### About ANPEP

Membrane alanyl aminopeptidase (EC 3.4.11.2) also known as alanyl aminopeptidase (AAP) or aminopeptidase N (AP-N) is an enzyme that in humans is encoded by the ANPEP gene. It is mapped to 15q26.1. Aminopeptidase N is located in the small-intestinal and renal microvillar membrane, and also in other plasma membranes. In the small intestine aminopeptidase N plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. Its function in proximal tubular epithelial cells and other cell types is less clear. The large extracellular carboxyterminal domain contains a pentapeptide consensus sequence characteristic of members of the zinc-binding metalloproteinase superfamily. Sequence comparisons with known enzymes of this class showed that CD13 and aminopeptidase N are identical. The latter enzyme was thought to be involved in the metabolism of regulatory peptides by diverse cell types, including small intestinal and renal tubular epithelial cells, macrophages, granulocytes, and synaptic membranes from the CNS. Human aminopeptidase N is a receptor for one strain of human coronavirus that is an important cause of upper respiratory tract infections. Defects in this gene appear to be a cause of various types of leukemia or lymphoma.

### Overview

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-CD13/ANPEP Antibody (Monoclonal, 34A01)                                                                                                                                                                                                                                                                                                                                                                                                         |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Description          | Boster Bio Anti-CD13/ANPEP Antibody (Monoclonal, 34A01) catalog # M02591-7. Tested in WB, IHC, IP applications. This antibody reacts with Human, Mouse, Rat.                                                                                                                                                                                                                                                                                         |
| Application          | IP, IHC, WB                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Clonality            | Monoclonal 34A01                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Formulation          | Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.<br>This antibody is supplied in a stabilized formulation.<br>Compatibility with conjugation reactions depends on the chemistry of the conjugation method used.<br>For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| Storage Instructions | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                           |
| Host                 | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Uniprot ID           | P15144                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### Technical Details

|           |                                                 |
|-----------|-------------------------------------------------|
| Immunogen | Synthetic peptide within Human CD13 aa 403-448. |
| Form      | Liquid                                          |

|                     |                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------|
| Concentration       | 500 ug/ml                                                                               |
| Purification        | Protein A affinity purified.                                                            |
| Suggested Dilutions | Western blot, 1:500-2000<br>Immunohistochemistry, 1:50-200<br>ImmunoPrecipitation, 1:50 |

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