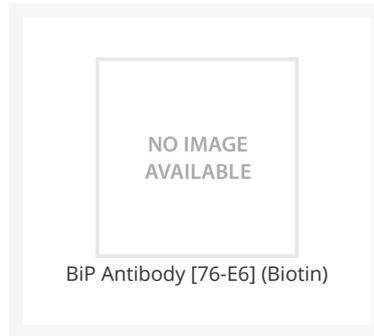




# BiP Antibody [76-E6] (Biotin)

Cat. No.: 98-891



BiP Antibody [76-E6] (Biotin)

## Ψ Specifications

|                             |  |
|-----------------------------|--|
| <b>HOST SPECIES:</b>        | Rat  |
| <b>SPECIES REACTIVITY:</b>  | Mouse  |
| <b>IMMUNOGEN:</b>           | Mouse BiP;μ chain complexes  |
| <b>TESTED APPLICATIONS:</b> | Flow   |
| <b>APPLICATIONS:</b>        | BiP Antibody [76-E6] for use in ELISA, western blotting, and immunoprecipitation assays. |
| <b>SPECIFICITY:</b>         | BiP  |

## Ψ Properties

|                            |                      |
|----------------------------|----------------------|
| <b>CLONALITY:</b>          | Monoclonal           |
| <b>ISOTYPE:</b>            | IgG2a                |
| <b>CONJUGATE:</b>          | Biotin               |
| <b>PHYSICAL STATE:</b>     | Liquid               |
| <b>BUFFER:</b>             | Supplied in PBS/NaN3 |
| <b>CONCENTRATION:</b>      | 0.5 mg/mL            |
| <b>STORAGE CONDITIONS:</b> | Store vial at 2-8 °C |

|                         |  |
|-------------------------|--|
| <b>OFFICIAL SYMBOL:</b> | Fcer2a   |
| <b>ALTERNATE NAMES:</b> | GRP78  |
| <b>ACCESSION NO.:</b>   | P20693   |
| <b>GENE ID:</b>         | 14828  |
| <b>USER NOTE:</b>       | Optimal dilutions for each application to be determined by the researcher. |

## Background and References

---

|                    |  |
|--------------------|--|
| <b>BACKGROUND:</b> | <p>The immunoglobulin heavy chain binding protein BiP is a member of the hsp70 family of heat shock proteins and is identical to the glucose regulated protein GRP78. While BiP was originally described for its function in B cells, it is now known to be distributed in a variety of tissues, if not ubiquitous. The highly conserved hsp70 proteins have an essential physiological role in stress responses and as “molecular chaperones” which are responsible for a variety of functions such as protein transport, prevention of protein toxicity and direction of protein folding. With regard to its immunological role, BiP is a component of the endoplasmic reticulum and binds free intracellular heavy chains in nonsecreting pre-B cell lines (<math>\mu+</math>,L-) or incompletely assembled Ig precursors in H+L+ secreting hybridomas and myelomas. In the absence of light chain synthesis, heavy chains remain associated with BiP and are not secreted. BiP is an ATP binding protein and the dissociation of the BiP-heavy chain complex is probably driven by the ATPase activity attributed to BiP. The monoclonal antibody 76-E6 recognizes a conserved epitope localized within the region of amino acids 497 to 581 of BiP.</p> |
|--------------------|--|

### **ANTIBODIES FOR RESEARCH USE ONLY.**

For additional information, visit ProSci's [Terms & Conditions Page](#).