

## Mouse Osteopontin, N-terminal Monoclonal Antibody

Monoclonal Antibody to Human Osteopontin, N-terminal

| CATALOG # | HOST  | REACTIVITY                                                                                                                                                                     | APPLICATIONS        |
|-----------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| AAA60675  | Mouse | Specific for the N-terminal fragment of full-length Osteopontin. Recognizes native human Osteopontin from purified breast milk and recombinant murine OPN expressed in E.coli. | Western Blot, ELISA |

### PRODUCT SYNONYMS

Osteopontin; N-terminal; Monoclonal Antibody; Monoclonal Antibody to Human Osteopontin; anti-Osteopontin; N-terminal antibody

### PRODUCT SPECIFICATIONS

|                                                                   |                                                                                                                                                                                |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                              | Mouse                                                                                                                                                                          |
| Reactivity                                                        | Specific for the N-terminal fragment of full-length Osteopontin. Recognizes native human Osteopontin from purified breast milk and recombinant murine OPN expressed in E.coli. |
| Clonality                                                         | Monoclonal                                                                                                                                                                     |
| Isotype                                                           | IgG1 kappa                                                                                                                                                                     |
| Clone Number                                                      | 2F10                                                                                                                                                                           |
| Purity/Purification                                               | Protein A chromatography from in vitro production<br>Purity: > 95% pure determined by size-exclusion chromatography                                                            |
| Concentration                                                     | 1.5 mg/mL (varies by lot)                                                                                                                                                      |
| Applicable Applications for anti-Osteopontin, N-terminal antibody | WB (Western Blot), ELISA                                                                                                                                                       |
| Immunogen                                                         | Recombinant full-length human Osteopontin                                                                                                                                      |
| pI                                                                | 7.1-7.8                                                                                                                                                                        |
| Buffer                                                            | 0.15M PBS                                                                                                                                                                      |
| Preservative                                                      | None                                                                                                                                                                           |
| Dry Ice Note                                                      | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                             |
| Preparation and Storage                                           | Store at -20C to -80C; avoid repeat freeze- thaw cycles                                                                                                                        |

### ADDITIONAL INFORMATION

|                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-Osteopontin, N-terminal antibody | Human Osteopontin (OPN) is a negatively charged hydrophilic protein of 314 amino acids and is subject to significant post translational modifications (PTM) including phosphorylation and glycosylation. Due to its acidic nature and PTMs, OPN runs anomalously by SDS-PAGE. Although its mass is 35kD, apparent molecular weights may range up to 75kD. In addition, OPN is subject to proteolytic modification into smaller molecular weight fragments. |
| References                                                            | Alicia Plumer, Hongyi Duan, Sripriya Subramaniam, F. Lee Lucas, Susan Meisfeldt, Ah-Kau Ng, Lucy Liaw. Development of Fragment Specific Osteopontin Antibodies and ELISA for Quantification in Human Metastatic Breast Cancer. BMC Cancer 2008, 8:38                                                                                                                                                                                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.