

## Immunotag™ Phospho-HSP20 (Ser16) Antibody

| Antibody Specification |                                                                                                                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No.            | ITA0775                                                                                                                                                                                                                                                                                                         |
| Product Description    | Immunotag™ Phospho-HSP20 (Ser16) Antibody                                                                                                                                                                                                                                                                       |
| Size                   | 100 µg, 200 µg                                                                                                                                                                                                                                                                                                  |
| Conjugation            | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647                                                                                                                                                                                   |
| IMPORTANT NOTE         | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.                                                                                                                                              |
| Target Protein         | Phospho-HSP20 (Ser16)                                                                                                                                                                                                                                                                                           |
| Clonality              | Polyclonal                                                                                                                                                                                                                                                                                                      |
| Storage/Stability      | -20°C/1 year                                                                                                                                                                                                                                                                                                    |
| Application            | WB,IHC,IF/ICC,ELISA                                                                                                                                                                                                                                                                                             |
| Recommended Dilution   | WB 1/1000 IHC 1:50-1:1000 IF/ICC 1:100-1:500                                                                                                                                                                                                                                                                    |
| Concentration          | 1 mg/ml                                                                                                                                                                                                                                                                                                         |
| Reactive Species       | Human,Mouse,Rat                                                                                                                                                                                                                                                                                                 |
| Host Species           | Rabbit                                                                                                                                                                                                                                                                                                          |
| Immunogen              | A synthesized peptide derived from human HSP20 around the phosphorylation site of Serine 16                                                                                                                                                                                                                     |
| Specificity            | Phospho-HSP20 (Ser16) Antibody detects endogenous levels of HSP20 only when phosphorylated at Serine 16                                                                                                                                                                                                         |
| Purification           | The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.                                                                                                                                                         |
| Form                   | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt                                                                                                                                                     |
| Gene Name              | HSPB6                                                                                                                                                                                                                                                                                                           |
| Accession No.          | O14558                                                                                                                                                                                                                                                                                                          |
| Alternate Names        | epididymis luminal protein 55; FLJ32389; Heat shock 20 kDa like protein p20; Heat shock 20 kDa-like protein p20; Heat shock protein alpha crystallin related B6; Heat shock protein beta 6; Heat shock protein beta-6; Heat shock protein, 20-KD; Heat-shock 27-KD protein 6; HEL55; Hsp20; HspB6; HSPB6_HUMAN; |

## Antibody Specification

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| Description               | Small heat shock protein which functions as a molecular chaperone probably maintaining denatured proteins in a folding-competent state. Seems to have versatile functions in various biological processes. Plays a role in regulating muscle function such as smooth muscle vasorelaxation and cardiac myocyte contractility. May regulate myocardial angiogenesis implicating KDR. Overexpression mediates cardioprotection and angiogenesis after induced damage. Stabilizes monomeric YWHAZ thereby supporting YWHAZ chaperone-like activity. |
| Cell Pathway/<br>Category | Primary Polyclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Protein MW                | 20kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Usage                     | For Research Use Only! Not for diagnostic or therapeutic procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |