

# Immunotag™ MSX2 Antibody

| Antibody Specification |                                                                                                                                                                                                                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No.            | ITA5005                                                                                                                                                                                                                                                                                                                           |
| Product Description    | Immunotag™ MSX2 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         | MSX2                                                                                                                                                                                                                                                                                                                              |
| Clonality              | Polyclonal                                                                                                                                                                                                                                                                                                                        |
| Storage/Stability      | -20°C/1 year                                                                                                                                                                                                                                                                                                                      |
| Application            | WB,IHC,IF/ICC,ELISA                                                                                                                                                                                                                                                                                                               |
| Recommended Dilution   | WB 1:500~1:1000 IHC: 1:50~1:200, IF/ICC 1:100-1:500                                                                                                                                                                                                                                                                               |
| Concentration          | 1 mg/ml                                                                                                                                                                                                                                                                                                                           |
| Reactive Species       | Human,Mouse                                                                                                                                                                                                                                                                                                                       |
| Host Species           | Rabbit                                                                                                                                                                                                                                                                                                                            |
| Immunogen              | A synthesized peptide                                                                                                                                                                                                                                                                                                             |
| Specificity            | MSX2 Antibody detects endogenous levels of total MSX2                                                                                                                                                                                                                                                                             |
| Purification           | The antiserum was purified by peptide affinity chromatography.                                                                                                                                                                                                                                                                    |
| 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              | MSX2                                                                                                                                                                                                                                                                                                                              |
| Accession No.          | P35548                                                                                                                                                                                                                                                                                                                            |
| Alternate Names        | CRS 2; CRS2; FPP; Homeo box msh like 2; Homeobox protein Hox-8; Homeobox protein MSX 2; Homeobox protein MSX-2; Homeobox protein MSX2; Hox 8; Hox8; MSH; Msh homeo box 2; Msh homeo box homolog; Msh homeo box homolog 2; Msh homeobox 2; Msh homeobox homolog 2; Msx 2; MSX2; MSX2_HUMAN; Parietal foramina 1; PFM 1; PFM; PFM1; |

## Antibody Specification

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description               | Acts as a transcriptional regulator in bone development. Represses the ALPL promoter activity and antagonizes the stimulatory effect of DLX5 on ALPL expression during osteoblast differentiation. Probable morphogenetic role. May play a role in limb-pattern formation. In osteoblasts, suppresses transcription driven by the osteocalcin FGF response element (OCFRE). Binds to the homeodomain-response element of the ALPL promoter. |
| Cell Pathway/<br>Category | Primary Polyclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Protein MW                | 29 KD                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Usage                     | For Research Use Only! Not for diagnostic or therapeutic procedures.                                                                                                                                                                                                                                                                                                                                                                        |