**RUNX2 (D1L7F) Rabbit mAb**

**For Research Use Only. Not For Use In Diagnostic Procedures.**

<table>
<thead>
<tr>
<th>Applications:</th>
<th>Reactivity:</th>
<th>Sensitivity:</th>
<th>MW (kDa):</th>
<th>Source/Isotype:</th>
<th>UniProt ID:</th>
<th>Entrez-Gene Id:</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB, IP, IF, IC, F, ChIP, ChIP-seq</td>
<td>H, M, R</td>
<td>Endogenous</td>
<td>55-62</td>
<td>Rabbit IgG</td>
<td>Q13950</td>
<td>860</td>
</tr>
</tbody>
</table>

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

**Specificity / Sensitivity**

RUNX2 (D1L7F) Rabbit mAb recognizes endogenous levels of total RUNX2 protein.

**Species Reactivity:**

Human, Mouse, Rat

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala273 of human RUNX2 protein.

**Background**

Runt-related transcription factor 2 (RUNX2) is a member of the RUNX family of transcription factors. It is involved in osteoblast differentiation and skeletal morphogenesis. RUNX2 regulates the transcription of various genes, including osteopontin, bone sialoprotein, and osteocalcin, via binding to the core site of the enhancers or promoters (1-3). RUNX2 is crucial for the maturation of osteoblasts and both intramembranous and endochondral ossification. Mutations in the corresponding RUNX2 gene have been associated with the bone development disorder cleidocranial dysplasia (CCD) (4-6). RUNX2 is also abnormally expressed in various human cancers including prostate cancer and breast cancer. It plays an important role in migration, invasion, and bone metastasis of prostate and breast cancer cells (7-10).