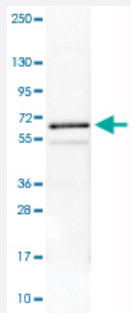


# RUNX2 monoclonal antibody, clone CL0235

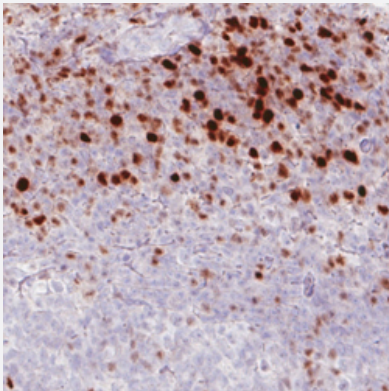
Catalog # MAB15572      Size 100 uL

## Applications



### Western Blot (Cell lysate)

Western Blot analysis of U-251 MG cell lysate with RUNX2 monoclonal antibody, clone CL0235 (Cat # MAB15572).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with RUNX2 monoclonal antibody, clone CL0235 (Cat # MAB15572) shows strong nuclear positivity in non-germinal center cells.

## Specification

|                            |                                                                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Mouse monoclonal antibody raised against partial recombinant human RUNX2.                                                              |
| <b>Immunogen</b>           | Recombinant protein corresponding to human RUNX2.                                                                                      |
| <b>Epitope</b>             | This antibody binds to an epitope located within the peptide sequence VPRRISGASELGPFS as determined by overlapping synthetic peptides. |
| <b>Sequence</b>            | LNSAPSPFNPQGQSQITDPRQAQSSPPWSYDQSYPSYLSQMTSPSIHSTTPLSSTRGTGLPAITDV<br>PRRISGASELGPFS DPRQFPSISLTSRFSNPRMHYPA                           |
| <b>Host</b>                | Mouse                                                                                                                                  |

|                     |                                                                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity          | Human                                                                                                                                                                                   |
| Form                | Liquid                                                                                                                                                                                  |
| Purification        | Protein A purification                                                                                                                                                                  |
| Isotype             | IgG1                                                                                                                                                                                    |
| Recommend Usage     | Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:500)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).                                                                                                                                      |
| Storage Instruction | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                  |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                  |

## Applications

- Western Blot (Cell lysate)

Western Blot analysis of U-251 MG cell lysate with RUNX2 monoclonal antibody, clone CL0235 (Cat # MAB15572).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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## Gene Info — RUNX2

|                    |                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">860</a>                                                                             |
| Protein Accession# | <a href="#">Q13950</a>                                                                          |
| Gene Name          | RUNX2                                                                                           |
| Gene Alias         | AML3, CBFA1, CCD, CCD1, MGC120022, MGC120023, OSF2, PEA2aA, PEBP2A1, PEBP2A2, PEBP2aA, PEBP2aA1 |
| Gene Description   | runt-related transcription factor 2                                                             |
| Omim ID            | <a href="#">119600 600211</a>                                                                   |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                       |

**Gene Summary**

This gene is a member of the RUNX family of transcription factors and encodes a nuclear protein with an Runt DNA-binding domain. This protein is essential for osteoblastic differentiation and skeletal morphogenesis and acts as a scaffold for nucleic acids and regulatory factors involved in skeletal gene expression. The protein can bind DNA both as a monomer or, with more affinity, as a subunit of a heterodimeric complex. Mutations in this gene have been associated with the bone development disorder cleidocranial dysplasia (CCD). Transcript variants that encode different protein isoforms result from the use of alternate promoters as well as alternate splicing. [provided by RefSeq]

**Other Designations**

CBF-alpha 1|OTTHUMP00000016533|SL3-3 enhancer factor 1 alpha A subunit|SL3/AKV core-binding factor alpha A subunit|acute myeloid leukemia 3 protein|core-binding factor, runt domain, alpha subunit 1|osteoblast-specific transcription factor 2|polyomavirus e

**Disease**

- [Alzheimer disease](#)
- [Bone Diseases](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cleidocranial Dysplasia](#)
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