

Product Information

Anti-BCOR antibody, Mouse monoclonal
Clone BR-4, purified from hybridoma cell culture

Product Number **SAB4200843**

Product Description

Monoclonal Anti-BCOR antibody (mouse IgG1 isotype) is derived from the BR-4 hybridoma, produced by the fusion of mouse myeloma cells and splenocytes from a mouse immunized with recombinant N-terminal region of human BCOR protein (GeneID 54880). The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents (Sigma ISO-2). The antibody is purified from culture supernatant of hybridoma cells.

Monoclonal Anti-BCOR antibody specifically recognizes human BCOR protein. The antibody may be used in various immunochemical techniques including Immunoblotting (~190 kDa) and Immunofluorescence.

BCOR encodes a ubiquitously expressed protein which is involved in BCL6-mediated transcriptional repression.¹ Originally it was identified as a novel BCL6 corepressor via its interaction with the site-specific DNA-binding transcription factor BCL6, whose aberrant expression drives formation of diffuse large B-cell lymphomas.²⁻³ In contrast to other BCL6 partners, NCOR and SMRT, it was recently demonstrated to occupy the majority of its DNA binding sites independently from BCL6, reflecting its multiple interaction partners. BCOR also forms a Polycomb repressor complex¹ (PRC1)-like complex with PCGF1, KDM2B, RING1, SKP1, RYBP, and RNF2, and can bind to both class I and II histone deacetylases.¹ BCOR is specifically and strongly expressed during embryonic development where it plays a critical role in transcriptional regulation, as BCOR mutations are associated with the X-linked inherited diseases Lenz microphthalmia and Oculofaciocardiodental syndrome (OFCD).⁴⁻⁵

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody Concentration: ~ 1.0 mg/mL

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8°C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working concentration of 2-4 µg/mL is recommended using human HeLa nuclear extract.

Immunofluorescence: a working concentration of 2-4 µg/mL is recommended using human HeLa cells.

Note: : In order to obtain best results in different techniques and preparations it is recommended to determine optimal working concentration by titration test.

References

1. Mazan MM., et al., *Blood*, **126**, 2433 (2015).
2. Huynh KD., *Genes Dev.*, **14**, 1810-23 (2000).
3. Cattoretti G., et al., *Cancer Cell*, **7**, 445-55 (2005).
4. Wamstad JA. and Bardwell VJ., *Gene Expr Patterns*, **7**, 550-7 (2007).
5. NG D., et al., *Nat Genet.*, **36**, 411-6 (2004).

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