

OVOL2 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50308

Clone# BP6285

Predicted Molecular Wt: 30kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: Q9BRP0

Background:

Transcription factor OVO-like zinc finger 2(OVOL2) contains a single zinc finger domain composed of a tetrad of C2H2 zinc fingers with variable N- and C-terminal extensions that contains intrinsically disordered domains, which is DNA-binding protein that binds to the 5'-G[GCT]GGGGG-3' core sequence. It probably acts as a transcription regulator. OVOL2 plays a critical role in maintaining the identity of epithelial lineages. It also suppresses cell cycling and terminal differentiation of keratinocytes by directly repressing MYC and NOTCH1. In addition, OVOL2 is important for the correct development of primordial germ cells in embryos.

OVOL2 is expressed in testis, ovary, heart and skeletal muscle of human normal tissue.

OVOL2 is a colorectal tumor suppressor that blocks WNT signaling by facilitating the recruitment of histone deacetylase 1 to the TCF4- β -catenin complex. Strategies to increase levels of OVOL2 might be developed to reduce colorectal tumor progression and metastasis. In addition, OVOL2 is demonstrated to directly repress the expression of several glycolytic genes, blocking the Warburg effect and breast tumor growth and metastasis.

Subcellular location:

Nucleus

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide. This information is proprietary to BioLynx.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

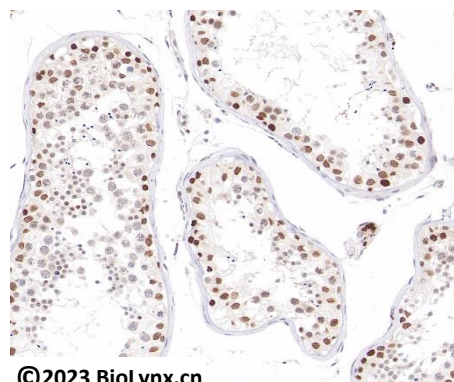
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

- Ye GD, Sun GB, et al. Gastroenterology. 150(3): 659-671, 2016 Mar.
- Zhang X, Luo F, et al. Adv Sci (Weinh). 9(27), 2022 Sep.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human testis tissue sections labeling OVOL2 with BP6285.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.