Advanced Targeting Systems

1930 KELLOGG AVENUE
CARLSBAD, CA 92008 USA
01.858.642.1988 • WWW.ATSBIO.COM

Antibody to Drosophila Posterior Sex Combs
MOUSE MONOCLONAL

Catalog Number: AB-V26
Quantity: 100 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.
Host: Mouse
Isotype: IgG2a
Clone: 1F4-E1-E2
Immunogen: AA 535-855 of D. melanogaster Posterior Sex Combs (PSC)

Background: Polycomb group (PcG) proteins are chromatin-modifying complexes first identified in Drosophila, where they function in the epigenetic silencing of gene expression. In mammals, PcG proteins play critical roles in development, including regulation of homeotic genes and X chromosome inactivation. Dysregulation or overexpression of PcG proteins has been associated with increased severity and invasiveness in several cancers. The Drosophila Posterior Sex Combs (Psc) gene is a member of the PcG family and is essential for maintaining segmental identity during development. It is also the homolog of the murine Bmi1 oncogene, which is known to promote neural stem cell self-renewal.

Specificity & Preparation: This IgG2a mouse antibody is generated against the homology region (aa535-855) of D. melanogaster Posterior Sex Combs (PSC) and recognizes Drosophila PSC and the Mouse homolog, BMI -1.

Usage: Applications include western blot. Working dilutions must be determined by end user.

Storage: Store antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

Scan to view all product references.

Selected References:

1. Martin EC, Adler PN (1993) The Polycomb group gene Posterior Sex Combs encodes a chromosomal protein. Development 117(2):641-655. doi: 10.1242/dev.117.2.641 PMID: 7687213

To view protocol(s) for this and other products please visit: www.ATSbio.com/library/protocols

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