

BRPF1 Protein, Human

Cat. No.:	HY-P702191
Synonyms:	BRPF1; Peregrin; Bromodomain and PHD finger-containing protein 1; Protein Br140
Species:	Human
Source:	E. coli
Accession:	P55201 (E1079-S1207)
Gene ID:	/
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>BRPF1, a pivotal scaffold subunit of histone acetyltransferase (HAT) complexes, such as MOZ/MORF and HBO1, exhibits histone H3 acetyltransferase activity. Within the HBO1 complex, BRPF1 plays a crucial role in directing the specificity of KAT7/HBO1 towards acetylation of histone H3 at 'Lys-14' (H3K14ac). Some HAT complexes, in which BRPF1 participates, preferentially mediate acetylation at histone H3 'Lys-23' (H3K23ac). Beyond its catalytic role, BRPF1 positively regulates the transcription of key genes like RUNX1 and RUNX2. It functions as a key component in the assembly of the HBO1 complex, interacting with KAT7/HBO1, MEAF6, and ING5. Additionally, BRPF1 is integral to the MOZ/MORF complex, collaborating with ING5, KAT6A, KAT6B, and MEAF6. The interaction of BRPF1 with specific histone modifications, such as unmethylated H3 at 'Lys-4' (H3K4me0) and trimethylated 'Lys-36' of histone H3 (H3K36me3), underscores its intricate involvement in chromatin dynamics. Notably, BRPF1 interacts with KAT7, highlighting its association with key players in HAT complexes and emphasizing its multifaceted role in epigenetic regulation.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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