

LAMTOR5/HBXIP (D4V4S) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IHC-P	H M R Mk	Endogenous	10.5	Rabbit IgG	#O43504	10542

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50
1:800

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

LAMTOR5/HBXIP (D4V4S) Rabbit mAb recognizes endogenous levels of total LAMTOR5/HBXIP protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu55 of human LAMTOR5/HBXIP protein.

Background

Late endosomal/lysosomal adaptor and MAPK and MTOR activator 5 (LAMTOR5) is an essential component of the ragulator protein complex that is encoded by the *HBXIP* gene (1). The ragulator complex also includes LAMTOR1/C11orf59, LAMTOR2/ROBLD3, LAMTOR3/MAPKSP1, and LAMTOR4/C7orf59 (1,2). Research studies demonstrate that the ragulator complex localizes to the lysosomal membrane and is essential for the lysosomal localization of Rag GTPases and mTORC1 as well as the subsequent activation of mTORC1 in response to amino acid signaling (1-3). Additional research studies indicate that HBXIP regulates hepatitis B virus x (HBx) protein activity and is a transcription coactivator involved in the proliferation and migration of breast cancer cells (4,5).

Background References

1. Bar-Peled, L. et al. (2012) *Cell* 150, 1196-208.
2. Sancak, Y. et al. (2010) *Cell* 141, 290-303.
3. Zoncu, R. et al. (2011) *Science* 334, 678-83.
4. Melegari, M. et al. (1998) *J Virol* 72, 1737-43.
5. Zhang, Y. et al. (2013) *J Biol Chem* 288, 18961-74.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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