

#14065 Store at -20°C

**Lyric/Metadherin (D5Y8R) XP®
Rabbit mAb****Cell Signaling**
TECHNOLOGY®**Orders:** 877-616-CELL (2355)
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P	H Mk	Endogenous	65,75	Rabbit IgG	#Q86UE4	92140

**Product Usage
Information****Application**

Western Blotting

Immunohistochemistry (Paraffin)

Dilution

1:1000

1:150

StorageSupplied 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**

Lyric/Metadherin (D5Y8R) XP® Rabbit mAb recognizes endogenous levels of total lyric/metadherin protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala140 of human lyric/metadherin protein.

Background

Lyric/AEG-1 (Astrocyte Elevated Gene 1)/MTDH (Metadherin) was identified as a tight junction (TJ) protein based on its localization to TJ proteins in polarized epithelium (1).

Differential subcellular localization and overexpression of Lyric/AEG-1/MTDH has been seen in multiple human cancers. Lyric/AEG-1/MTDH is involved in signaling pathways related to various cellular functions including proliferation and apoptosis/survival, and its alteration in cancer is associated with poor prognosis (reviewed in 2). In breast cancer, increased Lyric/AEG-1/MTDH may confer increased chemoresistance as well as metastasis (3,4). Lyric/AEG-1/MTDH expression is important in signaling and disease progression of hepatocellular carcinoma (HCC) (5) and glioblastoma multiforme (GBM) (6).

Background References

1. Britt, D.E. et al. (2004) *Exp Cell Res* 300, 134-48.
2. Hu, G. et al. (2009) *Clin Cancer Res* 15, 5615-20.
3. Brown, D.M. and Ruoslahti, E. (2004) *Cancer Cell* 5, 365-74.
4. Hu, G. et al. (2009) *Cancer Cell* 15, 9-20.
5. Yoo, B.K. et al. (2009) *J Clin Invest* 119, 465-77.
6. Emdad, L. et al. (2010) *Mol Cancer Ther* 9, 79-88.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key**WB:** Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)**Cross-Reactivity Key**

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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