

#81557 Store at -20°C

CUTL1 Antibody



Cell Signaling
TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	200	Rabbit	#P39880	1523

Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:200

Storage

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

Specificity / Sensitivity

CUTL1 Antibody recognizes endogenous levels of total CUTL1 protein. It recognizes the p200 isoform (the full-length) and is not expected to recognize the p110 and p75 isoforms.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln639 of human CUTL1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

CUTL1 (Cut-like 1), also known as CUX1 (Cut homeobox 1) (CUX1), is a transcription factor that has been implicated in many cellular processes in different tissues, such as cell migration, neuronal differentiation, and DNA repair (1-5). CUTL1 expression and activities are altered in cancer. Research studies have shown the CUTL1 gene to be a frequent target of loss-of-heterozygosity in various cancers (6,7). On the other hand, CUTL1 expression is elevated in many cancers and is associated with shorter disease-free survival (8). These accumulating evidence suggest that decreased CUTL1 expression promote tumor initiation and increased CUTL1 expression facilitates tumor progression (9). While full-length CUTL1 is about 200 kDa (p200), short forms p110 and p75 can also be generated by proteolytic processing and alternative transcription initiation site, respectively (10, 11).

Background References

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- Kedinger, V. et al. (2009) *J Biol Chem* 284, 27701-11.
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- McNerney, M.E. et al. (2013) *Blood* 121, 975-83.
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- Moon, N.S. et al. (2001) *Mol Cell Biol* 21, 6332-45.
- Goulet, B. et al. (2002) *Cancer Res* 62, 6625-33.

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 **IP:** Immunoprecipitation

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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