

Store at
-20°C

#93627

Legumain (D6S4H) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P	H M R	Endogenous	25, 35, 55	Rabbit IgG	#Q99538	5641

Product Usage Information

Application

Western Blotting
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:500

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.

For a carrier free (BSA and azide free) version of this product see product #92261.

Specificity/Sensitivity

Legumain (D6S4H) Rabbit mAb recognizes endogenous levels of total Legumain protein. Multiple bands represent posttranslational modification, including autoproteolytic cleavage, of Legumain.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu251 of human Legumain protein.

Background

Legumain (LGMN) is an asparaginyl endopeptidase that mediates lysosomal processing of antigen for class II MHC presentation. Under normal conditions, LGMN is mostly found in lysosomes. However, its expression level, cellular compartmentalization, and function may change under certain conditions, including cancer (1, 2, 3). In colorectal cancer, LGMN is upregulated and is found extracellularly and in the nucleus in both primary tumors and colorectal cancer cell lines (4, 5). Legumain forms homodimers and may be activated by posttranslational modifications, including autoproteolytic cleavage, as it moves from one cellular compartment to another (6).

Background References

- Haugen, M.H. et al. (2015) *Eur J Cancer* 51, 9-17.
- Gawenda, J. et al. (2007) *Breast Cancer Res Treat* 102, 1-6.
- Briggs, J.J. et al. (2010) *BMC Cancer* 10, 17.
- Liu, C. et al. (2003) *Cancer Res* 63, 2957-64.
- Haugen, M.H. et al. (2013) *PLoS One* 8, e52980.
- Zhao, L. et al. (2014) *Cell Res* 24, 344-58.

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 **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

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

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