10320 Camino Santa Fe, Suite G
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AMELX Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant AMELX.
Catalog # AT1132a

Specification

AMELX Antibody (monoclonal) (M04) - Product Information

Application	**WB, E**
Primary Accession	Q99217
Other Accession	NM_001142
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b Kappa**
Calculated MW	**21603**

AMELX Antibody (monoclonal) (M04) - Additional Information

Gene ID 265

Other Names
Amelogenin, X isoform, AMELX, AMG, AMGX

Target/Specificity
AMELX (NP_001133, 93 a.a. ~ 191 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
AMELX Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

AMELX Antibody (monoclonal) (M04) - Protocols

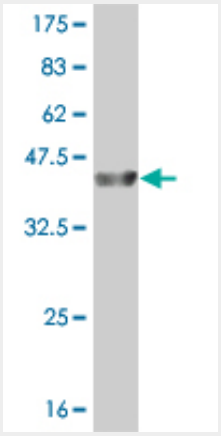
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

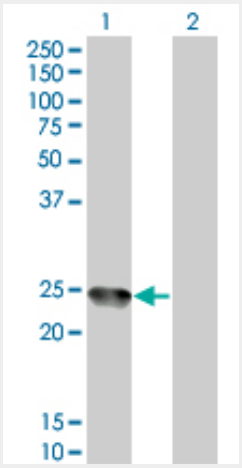
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- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AMELX Antibody (monoclonal) (M04) - Images

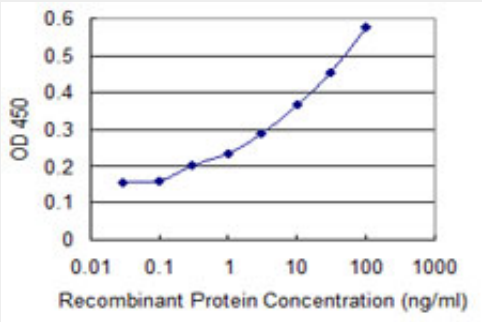


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



Western Blot analysis of AMELX expression in transfected 293T cell line by AMELX monoclonal antibody (M04), clone 6G3.

Lane 1: AMELX transfected lysate(21.603 KDa).
Lane 2: Non-transfected lysate.



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Detection limit for recombinant GST tagged AMELX is 0.1 ng/ml as a capture antibody.

AMELX Antibody (monoclonal) (M04) - Background

This gene encodes a member of the amelogenin family of extracellular matrix proteins. Amelogenins are involved in biomineralization during tooth enamel development. Mutations in this gene cause X-linked amelogenesis imperfecta. Alternative splicing results in multiple transcript variants encoding different isoforms.

AMELX Antibody (monoclonal) (M04) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.MMP20 hemopexin domain mutation in amelogenesis imperfecta. Lee SK, et al. J Dent Res, 2010 Jan. PMID 19966041.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.Typing of 48 autosomal SNPs and amelogenin with GenPlex SNP genotyping system in forensic genetics. Tomas C, et al. Forensic Sci Int Genet, 2008 Dec. PMID 19083859.Changes in the quaternary structure of amelogenin when adsorbed onto surfaces. Tarasevich BJ, et al. Biopolymers, 2009 Feb. PMID 19025992.