CE
EC REP Emergo Europe,Prinsessegracht20,2514APTheHague,TheNetherlands

Anti-Alpha-Actinin [JLN20]

Catalog No.	Description
AM097-5M	6 ml of Ready-to-Use Antibody for use with BioGenex Super Sensitive™ Detection Systems OR equivalent detection system
AM097-10M	10mlof Ready-to-Use Antibody in a barcode labeled vial for use with BioGenex Super Sensitive™ Detection Systems and i6000™AutomatedStainingSystems
MU097-UC	1mlofConcentratedAntibodyforusewith BioGenex Super Sensitive™ Detection Systems OR equivalent detection system
MU097-5UC	0.5mlofConcentrated Antibody for use with BioGenex Super Sensitive™ Detection Systems OR equivalent detection system
AX097-YCD	Ready-to-Use Antibody in Barcode labeled Vial for use on the Xmatrx® Elite Staining System,160tests
AX097-50D	Ready-to-Use Antibody in Barcode labeled Vial for use on the Xmatrx® Elite Staining System, 50tests
AX097-4M	Ready-to-Use Antibody in Barcode labeled vial for use on the NanoVIP® Staining System, 50 tests

Clone	Species	Ig Class
JLN20	Mouse	IgM

Intended Use

For In Vitro Diagnostic Use. This antibody is designed for the specific localization of Alpha-Actinin in formalin-fixed, paraffin-embedded (FFPE) tissue sections. Evaluation must be performed by a qualified pathologist.

Summary and Explanation

Actinins are actin-binding proteins of 100 kDa. Alpha-Actinin is a F-actin cross-linking protein thought to anchor actin to a variety of intracellular structures. Alpha-Actinin is found in stress fibers and adhesion plaques in non-muscle cells and in Z-discs and their homologues in muscle cells. Anti-Alpha-Actinin may stain erythrocyte membranes, and reacts with characteristic particulates in congenital nemalinemyopathy.

Storage and Handling

Store at 2-8°C. Fresh dilutions, if required, should be prepared prior to use and are stable and steady for up to one day at room temperature(20-26°C).Diluted antibody preparations can be refrigerated or frozen for extended shelf life.

Principles of the Procedure

Antigen detection by immunohistochemistry (IHC) is a two-step process where in the primary antibody binds to the antigen of interest and that binding is detected by a chromogen. The primaryantibody may be used in IHC using manual techniques or BioGenex Automated Staining System. Positive and negative controls should always be run simultaneously with all patient specimens.

Reagents Provided

Mouse Monoclonal Antibody Alpha-Actinin is affinity purified and diluted in PBS, pH 7.2, containing 1% BSA and 0.09% sodium azide.

Dilution of Primary Antibody

BioGenex Ready-to-Use antibodies have been optimized for use with the recommended BioGenex Detection System and should not require further dilution.

BioGenex concentrated antibodies must be diluted in accordancewiththerecommendedprotocolwhenusedwiththerecommendedBioGenexDetectionSystem.

Recommended Protocol

Refer to the following table for conditions specifically recommended for this antibody. Refer to the BioGenex websiteforguidanceonspecificstainingprotocolsorotherrequirements.

Parameter	BioGenex Recommendations
Control Tissue	MUSCLEtissueasavailablewithBiogenexFB-097M*& FG-097M*
Recommended Dilution for Concentrated Antibody	**1:20-50inHK156**
Recommended Pretreatment (Manual/i6000)**	EZ-AR2(HK522-XAK)
Recommended Pretreatment (Xmatrx & NanoVIP)	EZ-AR2Elegance (HX032-YCD & HX046-08XN)
Antibody Incubation(Manual/i6000)	60-120Min at RT
Antibody Incubation (Xmatrx & NanoVIP)	60-120Min at 25°C
Detection System for Manual, Xmatrx, NanoVIP & i6000systems***	Use BioGenex Two-Step **OR** One-Step Super Sensitive™ Polymer-HRPIHC Detection System/DAB;seep.2formore information

*FB: positive control micro chamber slides, FG: positive control microscopic slides .Xmatrx & NanoVIP require micro chamber slides.
**Pretreatment times will vary based on individual microwave power.
***For automation systems (Xmatrx-Elite, NanoVIP & i6000 Diagnostics), refer to the factory protocols provided with the instrument.

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Detection System	Two-Step HRP Kit	One-Step HRP Kit	Link and Label Kit
Manual	QD440-XAKEN (1000Test)	QD630-XAKEN (1000Test)	QP300-XAKE (1000Test)
	QD430-XAKEN (1000Test)		
	QD420-YIKEN (500Test)	QD620-XAKEN (500Test)	QP900-9LE (500Test)
	QD400-60KEN (60Test)		
Xmatrx - Automation	QD550-YCDEN (200Test)	QD610-YADEN (200Test)	N/A
NanoVIP-Automation	QD551-YCDEN (100 Test)	QD611-YADEN (100 Test)	N/A
i6000-Automation	QD410-YAXEN (200Test)	QD610-YAXEN (200Test)	N/A
Formoreinformation,visitwww.biogenex.com.			

Precautions

This product contains sodium azide at concentrations of less than0.1%. Sodium azide is not classified as a hazardous chemical at the product concentrations, but proper handling protocols should be observed. For more information, a Safety Data Sheet (SDS)for sodium azide is available upon request. Dispose of unused reagents according to Local, State and Federal Regulations.

Wear suitable Personal Protective Equipment, do not pipette reagents by mouth, and avoid contact of reagents and specimens with skin and mucous membranes. If reagents or specimens come in contact with sensitive area, wash with copious amounts of water.

Quality Control

Refer to BioGenex detection system documents for guidance on general quality control procedures.

Troubleshooting

Refer to the troubleshooting section in the documentation for BioGenex Detection Systems (or equivalent detection systems)for remedial actions on detection system related issues, or contact BioGenex Technical Support Department at 1-800-421-4149orsupport@biogenex.comoryourlocaldistributortoreportunusualstaining.

Expected Results

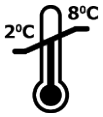
This antibody stains cytoplasm in positive cells in formalin-fixed, paraffin embedded tissue sections. An example image of a tissue section stained with this antibody can be found on the product page on the BioGenex website. Interpretation of the staining result is solely the responsibility of the user. Experimental results should be confirmed by a medically-established diagnostic product or procedure.

Limitations of the Procedure

Improper tissue handling and processing prior to immunostaining can lead to inconsistent results. Variations in embedding and fixation or the nature of the tissue may lead to variations in results. Endogenous peroxidase activity or pseudo peroxidase activity in erythrocytes and tissue biotin may result in non-specific staining based on 'the detection system employed. Tissues containing Hepatitis B Surface Antigen (HBsAg) may give false positive with horse radish peroxidase systems. Improper counterstaining and mounting may compromise the interpretation of results.

Bibliography

1. Koch, AE, et al. Amer J Pathol 144:244-259, 1994.
2. Duij vestijn, A, et al. JImmunol138:713-719, 1987.
3. Koch, AE, et al. JRheumatol15:1058-1063, 1988.
4. Koch, AE, et al.ArthritisRheum29:471-479, 1986.
5. Koch, AE, et al. Pathobiol60:59-67, 1992.

	Temperature Limitation		In Vitro Diagnostic Medical Device
	Use By Date		Batch Code
	Non-Sterile		Consult Instructions For Use
	Representative in the European Community		Manufacturer