

# AB-NN149-5

## Alpha A Crystallin Antibody

Pan-specific monoclonal antibody (1H3.B8) for monitoring the expression of human Alpha A Crystallin



**KINEXUS**

Address: 8755 Ash Street, Suite 1  
Vancouver, British Columbia,  
Canada V6P 6T3

Email: [info@kinexus.ca](mailto:info@kinexus.ca)  
Phone: 604-323-2547

### Target Protein

<b>Name Long:</b>	Alpha-Crystallin A
<b>Alias:</b>	Heat shock protein beta4, Acry 1, CRYA1, CRYAA, HSPB4
<b>UniProt ID:</b>	P02489 - Human
<b>Human Predicted Mass (KDa):</b>	19.909 (173 AA; P02489-1)
<b>Observed SDS-PAGE Mass (KDa):</b>	20

### Immunogen

<b>Antibody Immunogen Source:</b>	Native Alpha Crystallin
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### Production

<b>Antibody Host Species:</b>	Mouse
<b>Antibody Type:</b>	Monoclonal
<b>Antibody Ig Isotype Clone Lot:</b>	1 IgG1
<b>Antibody Purification:</b>	Protein G purified
<b>Amount:</b>	50 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	15DE1
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4 pH7.2, 50% glycerol, 0.09% sodium azide
<b>Storage Conditions and Stability:</b>	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles. For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

### Applications

<b>Product Use:</b>	WB   ELISA
<b>Antibody Dilution Recommended:</b>	WB (1:2000); optimal dilutions for assays should be determined by the user.
<b>Antibody Species Reactivity:</b>	Human   Mouse   Rat   Bovine
<b>Antibody Positive Control:</b>	0.5 µg/ml was sufficient for detection of 100ng purified alphaA crystalline by colorimetric immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary.
<b>Target Detection Immunoblotting:</b>	Detects a ~20 kDa protein.
<b>Antibody Specificity:</b>	Very high
<b>Antibody Cross Reactivities:</b>	Does not cross-react with αB-crystallin, βL-crystallin, BH- crystallin, γ-crystallin, HSP25, HSP27 or HSP47 proteins.

This product is for in vitro research use only and is not intended for use in humans or animals.

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