

## Product datasheet for **SM6001S**

### CRYAA2 Mouse Monoclonal Antibody [Clone ID: c9F2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	c9F2
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Western blot (1:500 - 1:2,000), recommended starting dilution 1:1000.
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human Crystallin alpha A (1-173aa) purified from E. coli
Specificity:	The antibody recognizes human , rat and mouse Crystallin-alpha A. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	crystallin alpha A2
Database Link:	<a href="#">Entrez Gene 102724652 Human A0A140G945</a>



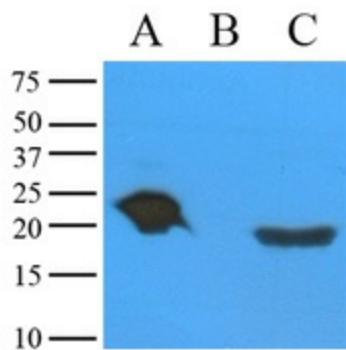
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**Background:**

Crystallins alpha are composed of two gene products; alpha A and alpha B, for acidic and basic, respectively. Crystallins alpha can be induced by heat shock and are members of the small heat shock protein (sHSP also known as the HSP20). They act as molecular chaperones and hold them in large soluble aggregates. These heterogeneous aggregates consist of 30-40 subunits; the alpha A and alpha B subunits have a 3:1 ratio, respectively. Two additional functions of alpha crystallins are an autokinase activity and participation in the intracellular architecture. The expression of alpha-A is preferentially restricted to the lens cell.

**Synonyms:**

CRYAA, HSPB4, Heat shock protein beta-4

**Product images:**

Western blot analysis: Mouse eye extracts and recombinant proteins (Crystallin-alpha A and B) were resolved by electrophoresis, transferred to PVDF membrane and probed with anti-Crystallin alpha A (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and a DAP detection system. This antibody does not show cross-activity about Crystallin alpha B. Lane A: Crystallin-alpha A recombinant protein, Lane B: Crystallin-alpha B recombinant protein, Lane C: Mouse eye lysates