



COSMO BIO CO., LTD.

Inspiration for Life Science

POLYCLONAL ANTIBODY

Catalog No. CB-BCRS1R

Human/bovine alpha/beta Crystallin (whole molecule)

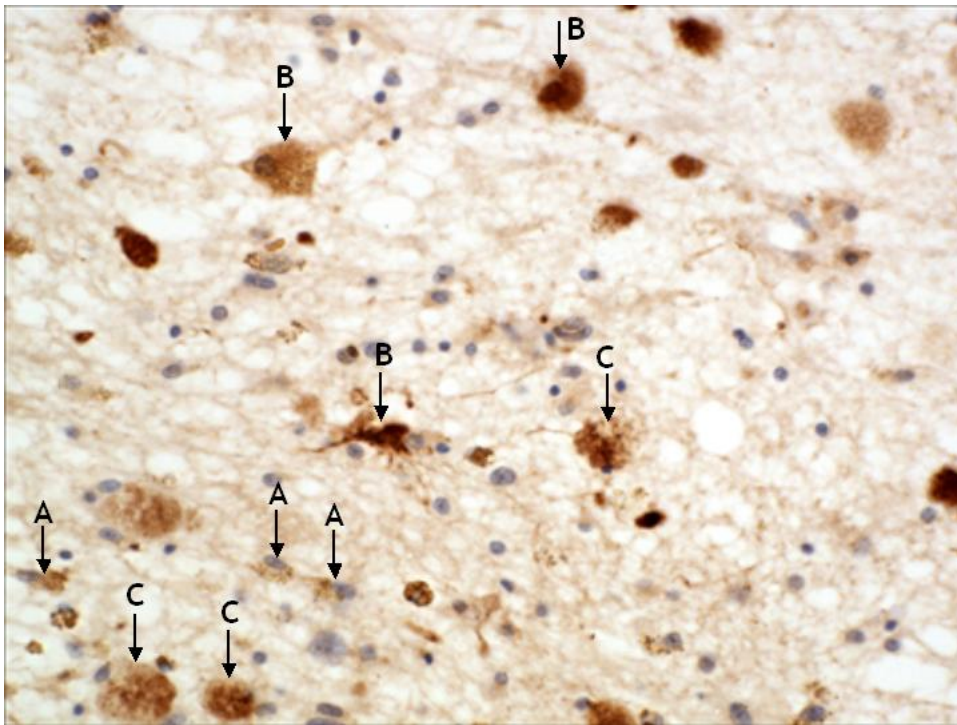
Product type	Primary antibodies
Host	Rabbit
Source	Serum
Form	Lyophilized powder
Volume (Concentration)	Filtered lyophilized serum containing 0.02% thimerosal. 0.1 mL
Specificity	Human/bovine alpha/beta Crystallin
Antigen	Bovine alpha/beta crystallin which has greater than 80% homology with human alpha/beta crystallin.
Isotype	IgG

Application notes	IHC(f), IHC(p), IF, Light microscopy Recommended use Immunohistochemistry on frozen or wax embedded tissue. Antigen retrieval has been used in characterisation but may not be necessary. Recommended dilutions Light microscopy 1/1000 to 1/4000 depending on tissue and detection method; Immunohistochemistry 1/2000 Immunofluorescence 1/100 to 1/400. Optimal dilutions/concentrations should be determined by the end user. Staining Pattern Stains Rosenthal fibre accumulation in astrocytes in human neurological trauma. (see attached images)
Cross reactivity	Bovine, Human
Storage	Reconstitute with 0.1ml of sterile distilled water. Re-aliquot into smaller volumes and freeze at -20°C or lower. Store working volume at 4°C. Avoid freeze thawing.
References	

For research use only. Not for clinical diagnosis.



A human neurological case showing abundant accumulation of $\alpha\beta$ crystallin (Cat # BcrysRA) in astrocytes in what are termed Rosenthal fibres.



Legend: $\alpha\beta$ crystallin staining of human brain tissue showing $\alpha\beta$ crystallin accumulation in Rosenthal fibres. Primary antibody 1/2000 of (Cat #, BcrysRA), Secondary antibody biotinylated Goat anti-rabbit (1/2000), Vector ABC, substrate DAB. (A) Shows the early stages of $\alpha\beta$ crystallin accumulation in astrocytes, (B) astrocyte begins to hypertrophy with $\alpha\beta$ crystallin accumulation, (C) the astrocyte begins to further hypertrophy and cell structure is lost.



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