

Crystallin- α B (phospho-S19) polyclonal antibody

Catalog: BS4672

Host: Rabbit

Reactivity: Human, Mouse, Rat

Background:

α -crystallins consist of three gene products, α A, α B and α C-crystallin, which are members of the small heat shock protein family (HSP 20). They are induced by heat shock, and act as molecular chaperones by holding denatured proteins in large soluble aggregates. However, unlike other molecular chaperones, α -crystallins do not renature these proteins. Expression of α A-crystallin is restricted to the lens. Defects in this gene cause autosomal dominant congenital cataracts (ADCC). The human α B-crystallin gene product is expressed in many tissues, including lens, heart and skeletal muscle. Elevated expression of α B-crystallin is associated with many neurological diseases, and a missense mutation in this gene has co-segregated in a family with a Desmin-related myopathy.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 26 kDa

Swiss-Prot:

P02511

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

Storage&Stability:

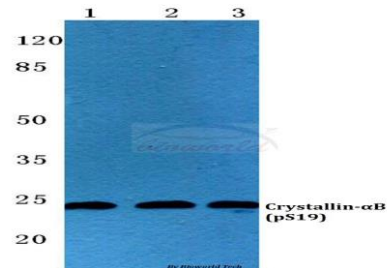
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

p-Crystallin- α B (S19) polyclonal antibody detects en-

dogenous levels of Crystallin- α B protein only when phosphorylated at Ser19.

DATA:

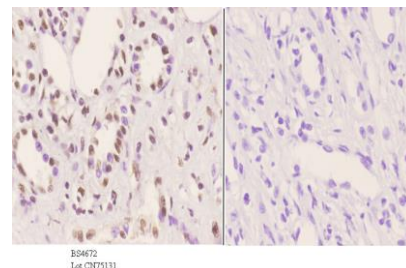


Western blot (WB) analysis of p-Crystallin- α B (S19) polyclonal antibody at 1:500 dilution

Lane1:MCF-7 cell lysate

Lane2:Mouse spleen tissue lysate

Lane3:Rat liver tissue lysate



Immunohistochemistry (IHC) analyzes of p-Crystallin- α B (S19) pAb in paraffin-embedded human kidney carcinoma tissue at 1:50, showing nucleus staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.

Note:

For research use only, not for use in diagnostic procedure.

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