

## Product datasheet for **TA350795S**

### BCAR1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: Hela, 231 and A431 cells IHC: 25-100 Positive control: Human gastric cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide of human BCAR1
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	93 kDa
Gene Name:	BCAR1, Cas family scaffolding protein
Database Link:	<a href="#">NP_055382</a> <a href="#">Entrez Gene 12927 Mouse</a> <a href="#">Entrez Gene 25414 Rat</a> <a href="#">Entrez Gene 9564 Human</a> <a href="#">P56945</a>



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**Background:**

BCAR1, or CAS, is an Src (MIM 190090) family kinase substrate involved in various cellular events, including migration, survival, transformation, and invasion. The molecular cloning of p130 Cas has shown it to represent a novel SH3 containing signaling molecule with a cluster of multiple putative SH2-binding motifs for v-Crk. By immunoprecipitation analysis, p130 Cas has been shown to be highly phosphorylated at tyrosine residues subsequent to either v-Src p60 or v-Crk-mediated transformation and to form stable complexes with both of these transforming proteins. p130 Cas behaves as an extremely potent substrate for protein tyrosine kinases and has been reported to relocate from the cytoplasm to cell membrane upon tyrosine phosphorylation. One proposed model is that the SH2 domain of v-Crk functions to activate c-Src kinase, which in turn phosphorylates p130 Cas.

**Synonyms:**

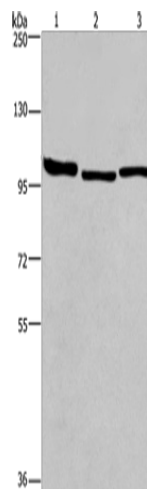
CAS; CAS1; CASS1; CRKAS; P130Cas

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton

**Product images:**

Gel: 6%SDS-PAGE

Lysate: 40 µg

Lane 1-3: HeLa cells

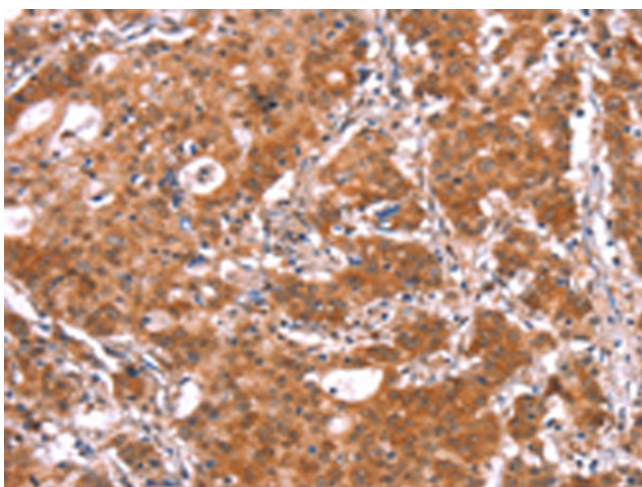
231 cells

A431 cells

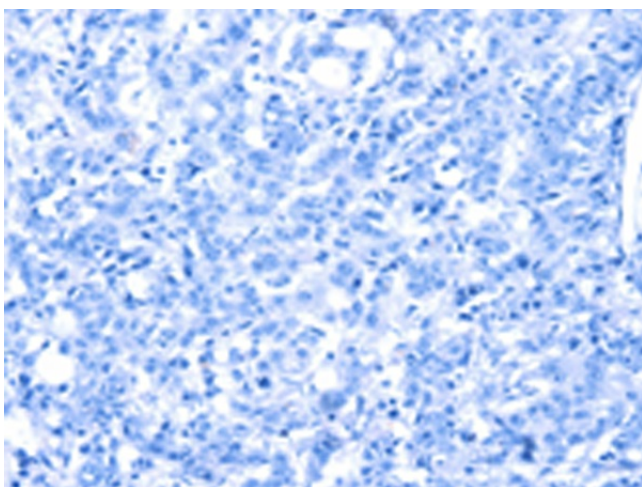
Primary antibody: [TA350795] (BCAR1 Antibody)  
at dilution 1/100

Secondary antibody: Goat anti rabbit IgG at  
1/8000 dilution

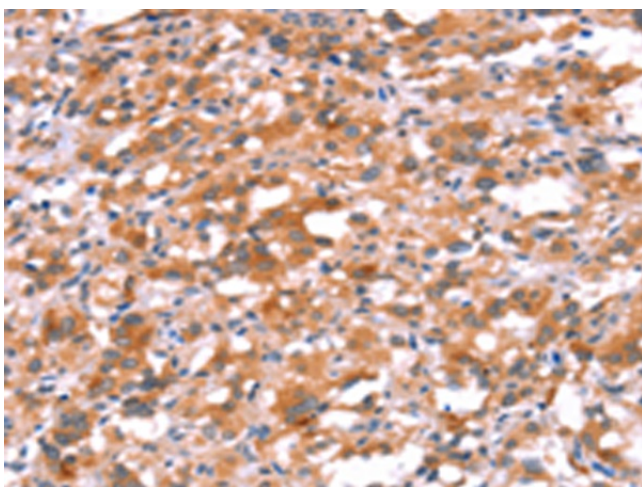
Exposure time: 4 minutes



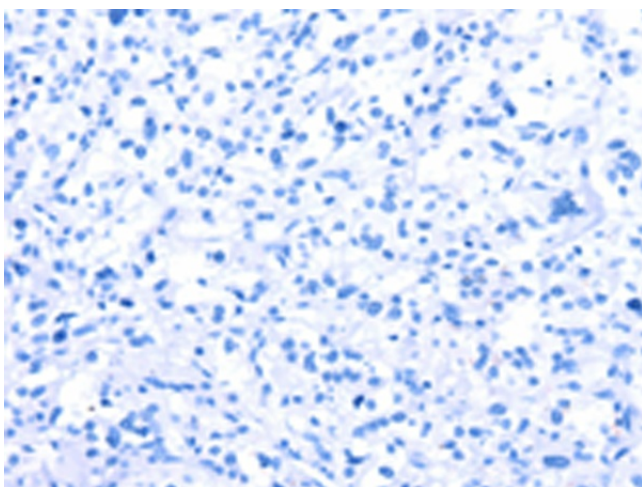
Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using [TA350795] (BCAR1 Antibody) at dilution 1/15 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using [TA350795] (BCAR1 Antibody) at dilution 1/15, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA350795] (BCAR1 Antibody) at dilution 1/15 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA350795] (BCAR1 Antibody) at dilution 1/15, treated with synthetic peptide. (Original magnification: ×200)