

# **Human Ajuba Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5594

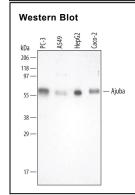
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects endogenous human Ajuba in Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human Ajuba Met1-Arg121 Accession # Q96IF1	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.	

### **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	2 μg/mL	See Below

#### DATA



Detection of Human Ajuba by Western Blot. Western blot shows lysates of PC-3 human prostate cancer cell line, A549 human lung carcinoma cell line, HepG2 human hepatocellular carcinoma cell line, and Caco-2 human colorectal adenocarcinoma cell line. PVDF membrane was probed with 2 µg/mL of Human Ajuba Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5594) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for Ajuba at approximately 55 to 60 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 1.

## PREPARATION AND STORAGE

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Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.		
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
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## Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
  - 12 months from date of receipt, -20 to -70 °C as supplied.
    1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## BACKGROUND

Ajuba (an Urdu word meaning "curiosity") is a 55-60 kDa member of the Zyxin/Ajuba family of proteins. Ajuba is found in keratinocytes, astrocytes and neurons, and exhibits multiple functions. It shuttles between the nucleus and cytosol, and participates in α-catenin:F-actin binding, β-catenin binding and phosphorylation, p62 aPKC scaffold protein binding and NF-κB activation, and Aurora-A binding and phosphorylation. Human Ajuba is 538 amino acids (aa) in length. It contains a Pro-rich preLIM region that binds actin and Grb2 (aa 1-335), an NES (aa 280-287), and three LIM domains that bind multiple proteins (aa 336-397, 401-461 and 462-530).

