

## Product datasheet for **AP06442PU-M**

### Nck beta (NCK2) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	<b>Immunohistochemistry on paraffin sections</b> 1/50-1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 341-390 of Human Nck-2.
Specificity:	This antibody detects endogenous levels of NCK2 protein. (region surrounding Ile364)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 47 kDa
Gene Name:	NCK adaptor protein 2
Database Link:	<a href="#">Entrez Gene 8440 Human O43639</a>



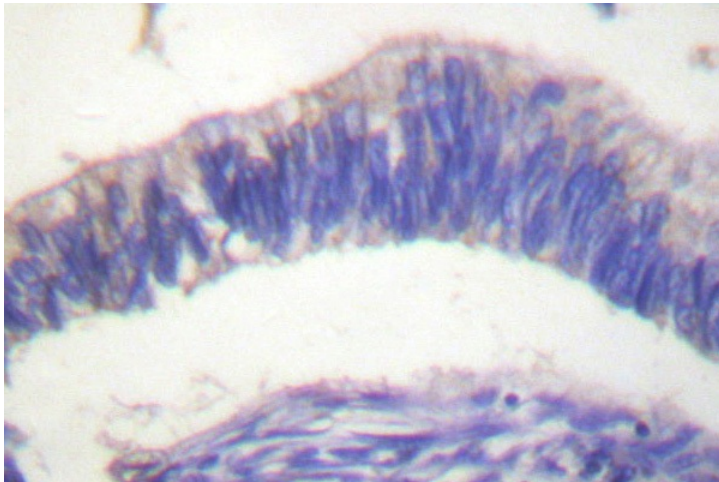
[View online »](#)

**Background:**

The NCK family of SH2/SH3 adaptor proteins consists of two members, NCK1 (NCK $\alpha$ ) and NCK2 (NCK $\beta$ ), which couple tyrosine kinase signaling, including the EGF and PDGF receptor-pathways, to downstream signaling proteins. Specifically, overexpression of NCK1 in NIH/3T3 cells decreases DNA synthesis stimulated by EGF. Furthermore, the SH2 domain of NCK2 inhibits EGF- and PDGF-induced DNA synthesis. The SH3 domain of NCK binds a proline-rich domain on PAK, a known actin cytoskeleton regulator. The NCK protein thus mediates the interaction between PAK and RAC. The NCK2 protein binds human PDGFR-b (Tyr-1009); overexpression of NCK2 inhibits PDGF-induced membrane ruffling and lamellipod formation. Various growth factor receptors, cell surface antigens and adhesion molecules phosphorylate mammalian NCK1 and NCK2. The human NCK1 and NCK2 genes map to chromosomes 3q21 and 2q12, respectively.

**Synonyms:**

GRB4; Nck-2; NCKbeta

**Product images:**


Immunohistochemistry (IHC) analyzes of NCK2 antibody in paraffin-embedded human colon carcinoma tissue.