# **PRODUCT INFORMATION**

Catalog number AEA0909

Clone No. 3D7

Product type Monoclonal Antibody

UnitProt No. P29317

NCBI Accession No. NP\_004422

## **Alternative Names**

EPH receptor A2, Ephrin type-A receptor 2, EPHA2, Epithelial cell kinase, Tyrosine-protein kinase receptor ECK, ARCC2, CTPA, CTPP1, CTRCT6

# **PRODUCT SPECIFICATION**

Antibody Host Mouse

Reacts With Human

**Concentration** 1mg/ml (determined by BCA assay)

## Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

## Immunogen

Recombinant human EphA2 (559-976aa) purified from E. coli

# Isotype

lgG2b kappa

**Purification Note** By protein-G affinity chromatography

## Application

ELISA, WB, IHC

## Usage

The antibody has been tested by ELISA, Western blot and IHC analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



#### Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# BACKGROUND

#### Description

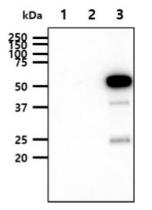
The Eph family of receptors is the largest known subfamily of receptor tyrosine kinases (RTk). Eph RTks and their ligands, the ephrins, are frequently overexpressed in a variety of cancers and tumor cell lines. One Eph family member, EphA2, is also overexpressed in a wide variety of cancers, including breast, small-cell lung and gastrointestinal cancers, melanomas, and neuroblastomas. The ephrin-Eph interactions are important in development, especially in cell-cell interactions involved in nervous system patterning and possibly in cancer.

#### **General References**

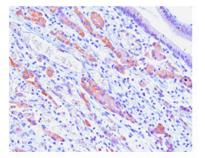
Ireton RC, Chen J: (2005) Curr Cancer Drug Tarqets. 5(3), 149-57 Nakamoto M, Berqemann AD: (2002) Microsc Res Tech. 59(1), 58-67

## DATA

#### Western blot analysis (WB)



Immunohistochemistry (IHC)



Human gastric cancer

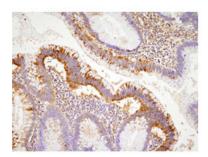
The cell lysates (10ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human EphA2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: 293T cell lysate

Lane 2.: EphA2 extracellular domain transfected 293T cell lysate Lane 3.: EphA2 cytoplasmic domain transfected 293T cell lysate

Paraffin embedded sections of human gastric cancer tissue were incubated with anti-human EphA2 (1:100) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)



NKMAXBiO We support you, we believe in your research Human EphA2 antibody Catalog Number: AEA0909



Human colon cancer

Paraffin embedded sections of human colon cancer tissue were incubated with anti-human EphA2 (1:100) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)

