

Anti-human α -Parvin Antibody

ORDERING INFORMATION

Catalog Number: AF5556

Lot Number: CCLX01

Size: 100 μ g

Formulation: 0.2 μ m filtered solution in PBS with 5% trehalose

Storage: -20° C

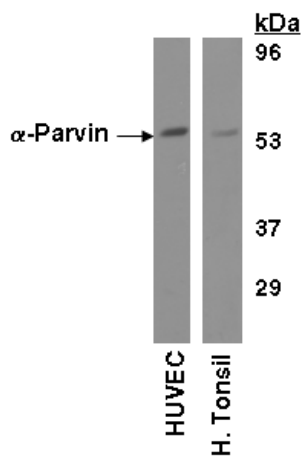
Reconstitution: sterile PBS

Specificity: human α -Parvin

Immunogen: *E. coli*-derived rh α -Parvin (aa 46 - 133)

Ig Type: sheep IgG

Applications: Western blot
Direct ELISA



Detection of α -Parvin with AF5556.

Cell and tissue lysates were resolved by SDS-PAGE, transferred to an Immobilon-P membrane and immunoblotted with 1.0 μ g/mL sheep anti-h α -Parvin.

Background

α -Parvin (*parvus* [Latin for "small"]-A/ α ; also actopaxin and PARV-A) is a 53 kDa member of the parvin family, α -actinin superfamily of proteins. It is widely expressed, and participates in actin filament assembly that precedes cell migration. Human PARVA is 372 amino acids (aa) in length. It contains two CH/calponin homology domains (aa 99 - 202 and 265 - 369), two NLSs (aa 19 - 26 and 38 - 40), and a recently identified paxillin binding sequence (aa 248 - 256). Multiple phosphorylation sites occur between Ser4 and Thr16 that are apparently utilized. PARVA is likely to exist as a dimer. There are three isoform variants of PARVA. All three contain an alternate start site at Met41, with one also showing a 21 aa substitution for aa 239 - 372, and a second also showing a 46 aa substitution for aa 134 - 372, respectively. Over aa 46 - 133, human and mouse PARVA share 95% aa identity.

Preparation

Produced in sheep immunized with purified, *E. coli*-derived, recombinant human α -Parvin (rh α -Parvin; aa 46 - 133; Accession # Q9NVD7). Human α -Parvin specific IgG was purified by human α -Parvin affinity chromatography.

Formulation

Lyophilized from a 0.2 μ m filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a **manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize human α -Parvin in direct ELISAs and Western blots. In direct ELISAs, this antibody shows less than 1% cross-reactivity with rh β -Parvin.

Applications

Western blot - An antibody concentration of 1.0 μ g/mL is recommended.

Direct ELISA - This antibody can be used at 0.5 - 1.0 μ g/mL with the appropriate secondary reagents to detect human α -Parvin. The detection limit for rh α -Parvin is approximately 0.3 ng/well.

Optimal dilutions should be determined by each laboratory for each application.