

## STEAP4 Ab

[Images\(2\)](#)

Cat.#: AF0574	Concn.: ~1mg/ml	Mol.Wt.: 51kDa
Size:	Source: Rabbit	Clonality: Polyclonal

Application: IHC 1:50-1:200, IF/ICC 1:100-1:500, WB 1:500-1:2000  
\*The optimal dilutions should be determined by the end user.

Reactivity: Human

Storage: Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

Purification: The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Immunogen: A synthesized peptide derived from human STEAP4, corresponding to a region within C-terminal amino acids.

Uniprot: Q687X5

Description: STEAP4 Metalloreductase that has the ability to reduce both Fe(3+) to Fe(2+) and Cu(2+) to Cu(1+). Uses NAD(+) as acceptor. Play a role in systemic metabolic homeostasis, integrating inflammatory and metabolic responses. Associated with obesity and insulin-resistance. Involved in inflammatory arthritis, through the regulation of inflammatory cytokines. Inhibits anchorage-independent cell proliferation. Belongs to the STEAP family.

Western blot analysis of extracts from Hela cells, using STEAP4 Ab. The lane on the left was treated with blocking peptide.

AF0574 at 1/100 staining human Prostate cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary Ab.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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