

Human vimentin monoclonal antibody

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|---------------------|---------------------|--------------------------|
| Category | monoclonal antibody | |
| Catalog No. | R-V-001 | |
| Applications | WB, IHC, IF, IP | |
| Reactivity | Human | No cross reaction: Mouse |

Immunogen information

| | |
|-------------------|--|
| Immunogen | Recombinant protein of human vimentin (97-404) |
| UniProt ID | P08670 |
| Synonyms | VIM |
| Gene ID | 7431 |

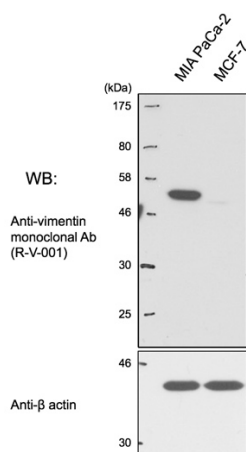
Product information

| | |
|----------------------------|---|
| Source | Mouse |
| Clone No. | 10-3.14 |
| Epitope | This clone recognized vimentin (221-250). |
| Isotype | IgG2a |
| Purification method | DEAE ion-exchange purification |
| Lot No. | 001 |
| Concentration | 1.0 mg/mL |
| Buffer | 50% glycerol/PBS, pH7.4, w/o sodium azide |
| Storage | Store at -20°C. |

Recommended dilutions

| | |
|------------|-----------------|
| WB | 1:1000 - 1:2000 |
| IHC | 1:100 - 1:200 |
| IF | 1:100 - 1:200 |
| IP | 1:20 - 1:50 |

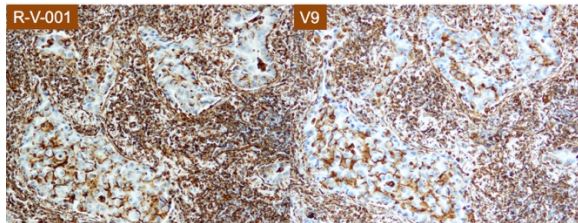
Western blot



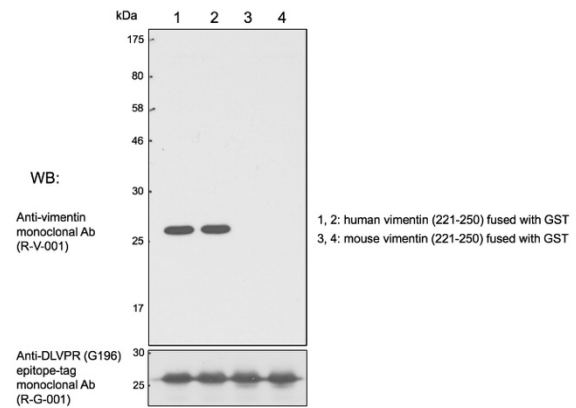
Detection of Endogenous Vimentin in a Human Cancer Cell Line by Western Blot.

Endogenous vimentin in a MIA-PaCa-2 human pancreatic carcinoma cell was detected by Western blotting with mouse anti-human vimentin monoclonal antibody (Catalog # R-V-001, upper panel). MCF-7 is vimentin-negative. Cell lysate (10µg / each lane).

Immunohistochemistry



Western blot



Background

Vimentin is a type III intermediate filament protein that is expressed in cells of mesenchymal origin, and is known to function in cell adhesion, migration, and cell signaling. Overexpression of vimentin is frequently observed in several types of cancer. In recent years, vimentin has been considered as a marker for epithelial-to-mesenchymal transition (EMT), a process in which epithelial cells acquire a mesenchymal migratory phenotype.

References for human vimentin monoclonal antibody (R-V-001)