# Data Sheet (Cat.No.TMAC-03193)

## Anti-Phospho-BRAF (Thr401) Antibody (6W728)

### Product Details

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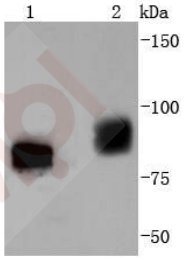
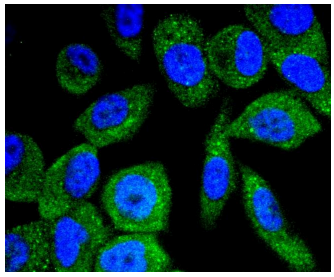
|---|---|
| Ig Type: | IgG |
| Reactivity: | Human,Mouse,Rat |
| Conjugation: | Unconjugated |
| Molecular Weight: | Theoretical: 84 kDa. |
| Clone: | 6W728 |
| Purification: | ProA affinity purified |

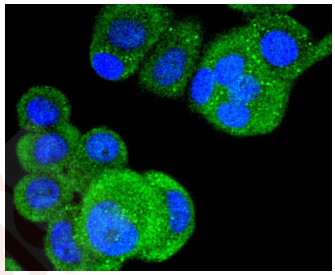
### Applications

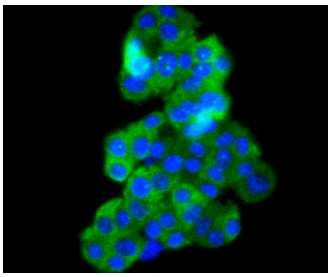
Verified Activity:

1. Western blot analysis of Phospho-B Raf (T401) on different lysates using anti-Phospho-B Raf (T401) antibody at 1/1,000 dilution. Positive control: Lane 1: Mouse testis, Lane 2: PC-12.
2. ICC staining Phospho-B Raf (T401) in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
3. ICC staining Phospho-B Raf (T401) in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
4. ICC staining Phospho-B Raf (T401) in PC-12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.







| | |
|---|---|
| Application: | ICC,IP,WB |
| Recommended | WB: 1:1000-5000; ICC: 1:100-500 |

## Properties

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| Stability & Storage: | Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

## Antigen Details

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|---|---|
| Immunogen: | A synthesized phosphopeptide: human B Raf around the phosphorylation site of Thr401 |
| Antigen Species: | human |
| Uniprot ID: | P15056 |
| Synonyms: | p-BRAF (T401);BRAF (p-T401);p-BRAF (Thr401);BRAF (p-Thr401) |

## Research Background

Several serine/threonine protein kinases have been implicated as intermediates in signal transduction pathways. These include ERK/MAP kinases, ribosomal S6 kinase (Rsk) and Raf-1. Raf-1 is a cytoplasmic protein with intrinsic serine/threonine activity. It is broadly expressed in nearly all cell lines tested to date and is the cellular homolog of v-Raf, the product of the transforming gene of the 3611 strain of murine sarcoma virus. The unregulated kinase activity of the v-Raf protein has been associated with transformation and mitogenesis, while the activity of Raf-1 is normally suppressed by a regulatory N-terminal domain. Raf-A, a second member of the Raf gene family of serine/threonine protein kinases, exhibits substantial homology to Raf-1 within the kinase domain of the two molecules, but less homology elsewhere. Expression of Raf-B is highly restricted, with highest levels in the cerebrum and testis.



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