

## Technical Data Sheet

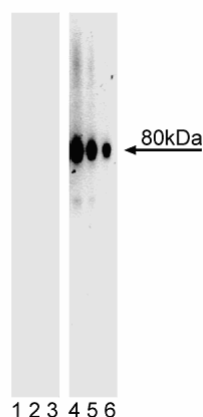
**Purified Mouse anti-Ezrin (pY353)****Product Information**

<b>Material Number:</b>	<b>558033</b>
<b>Size:</b>	0.1 mg
<b>Concentration:</b>	0.25 mg/ml
<b>Clone:</b>	I66-386
<b>Immunogen:</b>	Phosphorylated Human Ezrin Peptide
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Reactivity:</b>	QC Testing: Human
<b>Target MW:</b>	80 kDa
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09\%$ sodium azide.

**Description**

Ezrin is a member of the ERM (ezrin-radixin-moesin) family of proteins that function as crosslinkers between the actin cytoskeleton and the plasma membrane. Ezrin is a substrate for the tyrosine kinase epidermal (EGF) and hepatocyte growth factor (HGF) receptors. Upon EGF or HGF stimulation, ezrin is phosphorylated on tyrosine 353 (Y353), which is required for its interaction with phosphatidylinositol 3 kinase p85 subunit and activation of Akt.

The I66-386 monoclonal antibody recognizes the phosphorylated Y353 of human ezrin.



**Western blot analysis of Ezrin (pY353).** Human K562 cells were either left untreated (lanes 1-3) or treated with pervanadate (lanes 4-6). Blots were probed with anti-Ezrin (pY353) antibody at concentrations of 0.125 (lanes 1 and 4), 0.063 (lanes 2 and 5), and 0.032  $\mu\text{g/ml}$  (lanes 3 and 6). Ezrin (pY353) is identified as a band of  $\sim 80$  kDa

**Preparation and Storage**

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at  $4^{\circ}\text{C}$ .

**Application Notes****Application**

Western blot	Routinely Tested
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**Recommended Assay Procedure:**

Western blot: Please refer to [http://www.bdbiosciences.com/pharmingen/protocols/Western\\_Blotting.shtml](http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml).

**Suggested Companion Products**

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

**Product Notices**

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.

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3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

## References

Gautreau A, Poulet P, Louvard D, Arpin M. Ezrin, a plasma membrane–microfilament linker, signals cell survival through the phosphatidylinositol 3-kinase/Akt pathway. *Proc Natl Acad Sci U S A*. 1999; 96:7300-7305.(Biology)