

# Anti-p130 Cas (C-terminal region) Antibody

Catalog # AN1880

## Product Information

Application	WB, IHC, ICC, IP
Primary Accession	<a href="#">Q63767</a>
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Clone Names	M144
Calculated MW	104262

## Additional Information

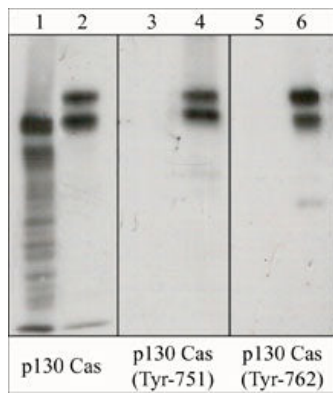
Gene ID	25414
Other Names	BCAR1, Cas
Dilution	WB~~1:1000 IHC~~1:100~500 ICC~~N/A IP~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-p130 Cas (C-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

## Background

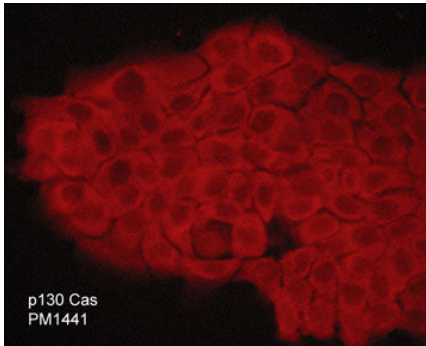
p130 Cas (Crk-associated substrate (CAS), breast cancer antiestrogen resistance 1 (BCAR1)) is a docking protein containing multiple protein-protein interaction domains. The N-terminal SH3 domain functions as a molecular switch regulating CAS tyrosine phosphorylation, as it interacts with tyrosine kinases and phosphatases. The C-terminal Src binding domain contains a proline-rich motif that mediates interaction with the SH3 domains of Src-family kinases (SFKs). Phosphorylation of this domain at Tyr-762 in rat (Tyr-668 in mouse) promotes this interaction. The p130 Cas central substrate domain is characterized by 15 tyrosines present in Tyr-X-X-Pro (YXXP) motifs, including Tyr-165, Tyr-249, and Tyr-410. When phosphorylated, most YXXP motifs are able to serve as docking sites for proteins with SH2 or PTB domains. In addition, phosphorylation of Tyr-751 (Tyr-653 in human) near the C-terminal caspase recognition site can attenuate caspase cleavage, while dephosphorylation occurs during apoptosis and may facilitate p130 Cas degradation.

## Images

Western blot analysis of human endothelial cells serum starved overnight (lanes 1, 3, & 5) or treated with pervanadate (1 mM) for 30 minutes (lanes 2, 4, & 6). The



blot was probed with anti-p130 Cas (AN1880; lanes 1 & 2), anti-p130 Cas (Tyr-751) (PP1581; lanes 3 & 4) or anti-p130 Cas (Tyr-762) (PP1451; lanes 5 & 6).



Immunocytochemical labeling of p130 Cas in aldehyde fixed human A431 epidermoid carcinoma cells. The cells were labeled with mouse monoclonal anti-p130 Cas (AN1880). The antibody was detected using goat anti-mouse DyLight® 594.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.