e at -20C	TRA-2-54 (2J) Mouse mAb	T C	Cell Signaling	
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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Mouse IgG1	UniProt ID: #P05186	Entrez-Gene Id: 249		
Product Usage Information	W	oplication estern Blotting munoprecipitation			Dilution 1:1000 1:100			
Storage	Sup	oplied in 10 mM sodi		7.5), 150 mM NaCl, 100 o not aliguot the antibody	µg/ml BSA, 50% glyc	erol and less than		
Specificity / Sens		TRA-2-54 (2J) Mouse mAb recognizes endogenous levels of total TRA-2-54 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with 2102Ep human embryonal carcinoma cells.						
Background		The family of alkaline phosphatases in humans is comprised of four members: intestinal, placental, placental-like (germ cell type), and tissue nonspecific. The tissue nonspecific isozyme is also known as the liver/bone/kidney alkaline phosphatase due to its expression in these tissues. It is also highly expressed in embryonic stem (ES) and embryonic carcinoma (EC) cells and is lost as these cells undergo differentiation (1,2). The TRA-2-54 (2J) Mouse mAb specifically detects this isozyme and does not detect the other family members, making it a useful tool for tracking the pluripotency status of ES and EC cells in culture.						
Background Refe		andrews, P.W. et al. (Draper, J.S. et al. (20						
Species Reactivit	t y Spe	cies reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., w	estern blot).		
Western Blot Buf		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	WB	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. n X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: hors GP: Guinea Pig Rab: rabbit All: all species expected								
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