Western Blotting.

Allows visualization of specific protein bands on a gel.

petection I puel pto 10 g Western ~ 10-69 Coomassie are extremely Westerns sensi tive methods of profein detection

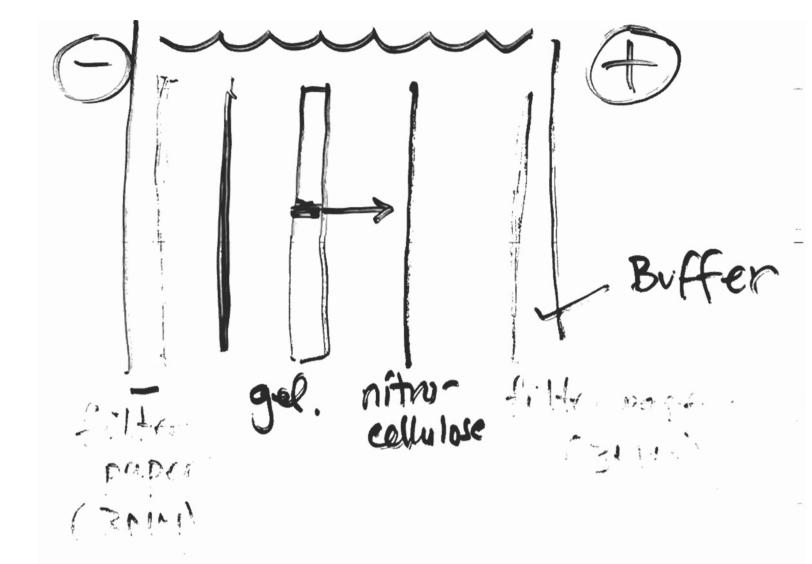
Autibodies

Profeirs made bythe immune system of animals against foreign antigens.

VARIABLE REGION (RECOGNIZES ANTIGEN) Anti bodies are used in Westerns CONSTANI because they REGION. bind specific-(5 CLASSES) ally only to proteins which they recognize.

Nitro cellulose membrane

Used (amongst other things) In Western Blotting to allow transfer and detection of Your favonite protein. has really high affinity for proteins



Setup of Western transfer *Note that there should be no space between gel dy membrane!

After Western transfer,
you need to do the following:

1. Block with non-specific

1. Block with non-specific milk protein (necessary to cover all empty spaces on Western so that autibodies do not bind everywhere!

2. Add primary antibody which binds directly to β-gal. (from the binds directly to β-gal. (from the binds)

3. Add secondary autibody (from goat) that binds to primary

antibody secondary autibody is useful to detect any band that is bound to any rabbit antibody; it also allows for amplification of signal.

- Primary anti-Bgalbinds to B-gal ONLY - Secondary antibody binds to constant region of primary a-b-gal antibody. 2º d-rabbit 1º rabbit cellulose mem prage Alkaline phosphatase AP + BCID nihocellulose